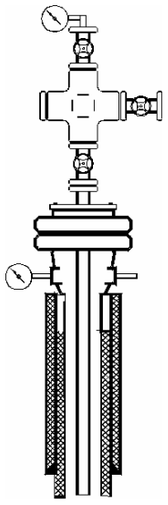
PERMIT APPLICATION TO DISPOSE OF WASTE IN A CLASS I INJECTION WELL

PERMIT RENEWAL APPLICATIONS - WDW-447 AND WDW-448 -



Uranium Energy Corp

URANIUM ENERGY CORP
BURKE HOLLOW FACILITY
BEE COUNTY, TEXAS

DECEMBER 2024

TERRA DYNAMICS INC

Project No. 24-145

2300 GREENHILL DRIVE SUITE 700 ROUND ROCK, TEXAS 78664 OFFICE 512-795-8183

PERMIT APPLICATION TO DISPOSE OF WASTE IN A CLASS I INJECTION WELL

-PERMIT RENEWAL APPLICATIONS -
- WDW-447 AND WDW-448 -

Prepared for

URANIUM ENERGY CORP
BURKE HOLLOW FACILITY
BEE COUNTY, TEXAS

Prepared by

TERRA DYNAMICS INC

ROUND ROCK, TEXAS

Project No. 24-145
December 2024

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WDW 447

Texas Commission on Environmental Quality
Permit Application to Dispose of Waste
In A Class I Injection Well

I. General Information

A. Type of Application (check all that apply):

☐ Initial
☒ Renewal
☐ Major Amendment
☒ Minor Amendment
☐ Minor Modification
☐ Transfer
☐ Endorsement

Type of Waste (check all that apply):

☐ Hazardous Waste
☒ Nonhazardous Waste

Type of Facility (check all that apply):

☐ Commercial
☒ Noncommercial

Source of waste for noncommercial (check all that apply):

☒ Onsite
☐ Captured facility
☐ Offsite from facilities owned or effectively controlled by owner/operator

B. Facility Name: Burke Hollow Project
Street Address: 87 PR 6003 Beeville
City, State, Zip: Beeville, Bee County Texas
Mailing Address: 500North Shoreline Blvd, Suite 800N
Mailing City, State, Zip: Corpus Christi, TX 78401
County: Bee County
TCEQ Solid Waste Registration (SWR) Number: NA
EPA ID Number: NA

Give a description of the location of the facility site with respect to known or easily identifiable landmarks. Detail the access routes from the nearest U.S. or State Highway to the facility:

The Uranium Energy Corporation Burke Hollow facility is located on an 11,359-acre area site in Bee County, Texas. The main entrance to the Burke Hollow Project is located approximately 38 miles north of Corpus Christi or 3 miles south of Woodsboro on Hwy 77. The actual plant and wellfields are located an additional 12 miles west of the Hwy 77 entrance via caliche road.

Is the facility located within the Coastal Management Program boundary? Refer to Texas Coastal Management Boundary Map[1] for boundary. For questions regarding the Coastal Management Program, please call (800) 998-4456 (within Texas) or (512) 475-0773. [30 TAC §281.41]

☐ Yes ☒ No

Provide the location of the injection well relative to established surveys:

The well will be located approximately 9,200 feet from the north line and 2,300 feet from the west line of the M. De Los Santos Survey, Abstract A-64, Latitude 28°16'55" North, Longitude 97°31'02" West, Bee County, Texas.

Enter the geographical coordinates of the injection well in decimal degrees to 6 decimal places:

Latitude: 28.281861
Longitude: -97.51725

Provide the depths of the injection zone and injection interval:

Injection Zone: :Lower Anahuac and Upper Frio Formation(s) at depths of 2,940 to 3,900 feet below ground level.

Injection Interval: Heterostegina Sand Formation(s) at depths of 3,070 to 3,900 feet below ground level

C. Operator/Applicant (Individual, Corporation, or other Legal Entity Name)

Name: Uranium Energy Corp
Address: 500 North Shoreline Blvd. Suite 800 N
City, State and Zip: Corpus Christi, Texas 78401
Telephone Number: (361) 888-8235

If the application is submitted on behalf of a corporation or other business organization with filing requirements, please identify the Charter Filing Number as recorded with the Office of the Secretary of State for Texas.

Charter Filing Number: 800436242

Is the applicant required to designate a registered agent with the Secretary of State of Texas?

☒ Yes ☐ No

If the application is submitted by a business organization that is required to designate and maintain a registered agent, the applicant must provide the name and address of the registered agent.

Agent: Incorp Services, Inc.
Address: 815 Brazos St. Suite 500
City, State, and Zip: Ausitn, TX 78701
Telephone Number: 1-800-246-2677

[1] https://www.glo.texas.gov/coast/coastal-management/forms/files/CoastalBoundaryMap.pdf

D. Facility Owner(s) (Individual, Corporation, or other Legal Entity Name)

The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. The facility owner must be consistent with the owner on the deed filing bearing the stamp of the county property records or other generally accepted identifying reference of the current ownership record provided in Section I.P.5, Attachment C of the application. If the facility owner is the same as the operator, state "same as operator". If the facility land, structures, appurtenances, and improvements on the land are owned by more than one individual, corporation or other legal entity, provide the following information for all owners. Clearly identify the relationship(s) between the operator and all facility owner(s). [THSC §361.087(1)]

Name: Burke Hollow Corporation
Address: 1800 Augusta Dr., Ste 212
City, State, Zip: Houston, TX 77057-3131
Telephone Number: 713-789-0090
Charter Filing Number: 108719000

E. Indicate the ownership status of the facility.

Private:
☒ Corporation
☐ Partnership
☐ Proprietorship
☐ Nonprofit organization

Public:

☐ Military
☐ State
☐ Regional
☐ County
☐ Municipal
☐ Federal

Other (specify): _____

F. List those persons or firms authorized to act for the applicant during the processing of the permit application. Indicate the capacity in which each person may represent the applicant (engineering, geology, legal, etc.). The person listed first will be the primary recipient of correspondence regarding this application. Include complete mailing addresses, phone numbers and e-mail addresses.

Mr. Craig Wall, EH & S Manager
Uranium Energy Corporation
500 North Shoreline Blvd., Suite 800N
Corpus Christi, TX 78401
(381)888-8235 ext. 230
cwall@uraniumenergy.com

Ms. Stephanie K. Williams, P.G.
Terra Dynamics Inc.
2300 Greenhill Drive Suite 700
Round Rock, TX 78664
512-795-8183
swilliams@terradyn.com

G. For new, renewal, and major amendment applications specify the individual who will be responsible for causing notice to be published in the newspaper. Include the complete mailing address, telephone number, fax number and e-mail address.

Mr. Craig Wall cwall@uraniumenergy.com
Uranium Energy Corporation
500 North Shoreline Blvd., Suite 800N
Corpus Christi, TX 78401
Phone: (361) 888-8235 ext. 230 FAX: (361) 888-5041

H. Describe the activities conducted by the applicant which require a permit.

Injection of non-hazardous wastewater from in situ uranium mining and well field restoration operations.

I. For amendment, modification, transfer or endorsement applications, briefly describe all requested changes to the permit and to the application contents and the reasons for the changes.

The location of WDW-447 has been revised to the location listed in Item I.B. The site location was moved to ensure the proposed location does not interfere with future UEC operations.

J. Business Information

1. Give a brief description of the nature of your business.

   In situ uranium mining.

2. List the principal products and/or services which are provided by your plant. Please itemize by Standard Industrial Classification (SIC) codes. Also label the products with their common names, if applicable.

   SIC Code 1094: Uranium-Radium-Vanadium Ores

K. Applicant Compliance History

The TCEQ will utilize compliance history when making decisions regarding the issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit. Violations included in a criminal conviction are considered when evaluating and classifying the site's compliance history.

For the five years preceding the filing date of this application, please submit a complete listing of all criminal convictions (i.e., State or Federal) of the operator and facility owner in which a violation of environmental law was an element of the crime. [30 TAC §60.2(d)(1)(E) and §60.2(d)(2)(F)] If there have been no such convictions then the application should state the following. If the operator is not the facility owner, a separate statement should be provided for each facility owner.

> In the five years preceding the filing of this application (the operator/applicant, owner), Uranium Energy Corp, has not been convicted of a State or Federal crime in which a violation of environmental law was an element of the crime.
>
> In the five years preceding the filing of this application (the operator/applicant, owner), Burke Hollow Corporation, has not been convicted of a State or Federal crime in which a violation of environmental law was an element of the crime.

L. TCEQ Core Data Form

The TCEQ requires that a Core Data Form[2] (TCEQ-10400) be submitted with all new and renewal applications. Submit the form as "Attachment A". For all other applications, if a Regulated Entity Number (RN) and Customer Reference Number (CN) have been issued by the TCEQ and core data information has not changed, a Core Data Form is not required. For more information regarding the Core Data Form, call (512) 239-5175 or go to the Core Data Form Instructions[3] on the TCEQ website. See Attachment A

RN 107228371
CN 603228461

M. Public Interest Demonstration

Section 27.051 of the Texas Water Code (TWC) stipulates certain conditions that must exist for the Commission to grant an application and issue a permit. For all new applications, permit renewals, and major and minor amendments, submit as "Attachment B" information addressing the following considerations: See Attachment B

1. That the use or installation of the injection well is in the public interest. [TWC§27.051(a)(1)]

2. That no existing rights, including, but not limited to, mineral rights, will be impaired. [TWC §27.051(a)(2)]

3. That, with proper safeguards, both ground and surface fresh water can be adequately protected from pollution. [TWC §27.051(a)(3)]

4. That the applicant has made a satisfactory showing of financial responsibility if required by Section 27.073 of this code. [TWC §27.051(a)(4)]

5. That the compliance history of the applicant and related entities is acceptable. [TWC §27.051(d)(1), 30 TAC § 331.121(b)(1)]

6. That there is no practical, economic, and feasible alternative to an injection well reasonably available. Provide justification for subsurface disposal. Include results of treatability studies of alternate, practical, economic and feasible methods of waste disposal. Explain in detail why each method is considered to be less satisfactory in terms of environmental protection than the proposed subsurface disposal method. Indicate whether this waste is presently being produced and, if so, what method is used for disposal. Describe the manufacturing process(es) and product(s) which produce the waste(s). [TWC §27.051(d)(2), 30 TAC § 331.121(b)(2)]

7. (for hazardous waste injection wells only) That the applicant has provided for the proper operation of the proposed hazardous waste injection well. [TWC §27.051(a)(5)]

8. (for hazardous waste injection wells only) That the applicant for a hazardous waste injection well not located in an area of industrial land use has made a reasonable effort to ensure that the burden, if any, imposed by the proposed hazardous waste injection well on local law enforcement, emergency medical or fire-fighting personnel, or public roadways, will be reasonably minimized or mitigated. [TWC §27.051(a)(6)]

[2] https://www.tceq.texas.gov/downloads/permitting/central-registry-docs/10400-core-data-form.docx
[3] https://www.tceq.texas.gov/downloads/permitting/central-registry-docs/10400-core-data-form-instructions.pdf

9. (for hazardous waste injection wells only) That the applicant owns or has made a good faith claim to own, or has the consent of the owner to utilize, or has an option to acquire, or has the authority to acquire through eminent domain, the property or portions of the property where the hazardous waste injection well will be constructed. [TWC §27.051(a)(7)]

10. (for hazardous waste injection wells only) That the applicant will maintain sufficient public liability insurance for bodily injury and property damage to third parties that is caused by sudden and non-sudden accidents or will otherwise demonstrate financial responsibility in a manner adopted by the Commission in lieu of public liability insurance. [TWC §27.051(d)(3), 30 TAC § 331.121(b)(3)]

11. (for hazardous waste injection wells only) For on-site generated waste, provide certification by the owner/operator that (1) the generator of the hazardous waste has a program to reduce the volume or quantity and toxicity of the waste to the degree determined by the generator to be economically practicable, and (2) injection of the waste is that practicable method of disposal currently available to the generator which minimizes the present and future threat to human health and the environment. [30 TAC §331.121(b)(4)]

N. For applications for new permits, renewals, and major amendments, a copy of the administratively complete application and subsequent revisions must be made available at a 10public place in the county where the facility is located or proposed to be located for review and copying by the public. Identify the public place in the county (e.g., public library, county courthouse, city hall), including the address, where the application will be located. [30 TAC §39.405(g)]

Joe Barnhart Bee County Library
110 W. Corpus Christi St.
Beeville, TX 78102

O. Facility Background Information [30 TAC §305.45(a)(7)]

Indicate (by listing the permit number(s) and governing agency(ies) in the columns below) all existing, pending, interim status, or permit-by-rule State and/or Federal permits, licenses or construction approvals which pertain to pollution control or industrial solid waste management activities conducted by your plant or at your location, or existing at a proposed plant or location. Complete each blank by entering either the **permit number** or **the date of application**, and the **governing agency** or **none**.

Existing Permits

Relevant Program and/or Law	Permit Number or License	Government Agency *
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	none	
UIC Program under the Texas Injection Well Act (Class I, II, III, IV, V and VI Wells)	WDW-447 WDW-448 UR03090	TCEQ
Texas Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under the Texas Water Code, Chapter 26	none	
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA)	none	
Nonattainment Program under the FCAA	none	

Relevant Program and/or Law	Permit Number or License	Government Agency *
National Emission Standards for Hazardous Air Pollutants preconstruction approval under the FCAA	none	
Ocean dumping permits under the Marine Protection Research and Sanctuaries Act	none	
Dredge or fill permits under the Federal Clean Water Act	none	
Licenses under the Texas Radiation Control Act	none	
Subsurface Area Drip Dispersal System permits under Texas Water Code, Chapter 32	none	
Texas Solid Waste Disposal Act	none	
Texas Uranium Surface Mining and Reclamation Act	R06066	TCEQ
Texas Surface Coal Mining and Reclamation Act	none	
Other relevant environmental permits/licenses	150L	RRC

* Use the following acronyms for each agency:
TCEQ = Texas Commission on Environmental Quality
RRC = Railroad Commission of Texas
DSHS = Department of State Health Services
TDA = Texas Department of Agriculture
EPA = U.S. Environmental Protection Agency
CORPS = U.S. Army Corps of Engineers

P. Location

1. Is the facility located on Indian lands?

   ☐ Yes ☒ No

   If yes, do not complete this application. Contact EPA Region 6 for application and permitting requirements for injection wells located on Indian lands. [40 CFR §147.2205(a)]

2. Is the facility located in an area in which the governing body of the county or municipality has prohibited the processing or disposal of municipal hazardous waste or industrial solid waste?

   ☐ Yes ☒ No

   If yes, do not complete this application. TCEQ may not grant an application for an injection well permit in this area. [THSC §363.112(d)]

3. If the facility is a new commercial hazardous waste management facility, or the subsequent areal expansion of such a facility, is the boundary of the well or pre-injection units to be located within ½ of a mile of an established residence, church, school, day care center, surface water body used for public drinking water supply, or dedicated park?

   ☐ Yes ☒ No

   If yes, provide If yes, do not complete this application. TCEQ may not issue a permit for a facility in this location. [30 TAC §335.205(a)(3)]

4. Is the location or proposed location of the injection well in the territory of a groundwater conservation district? To determine if the injection well is or will be located in the

territory of a groundwater conservation district refer to the Texas Groundwater Conservation District map[4] on the TWDB website.

☒ Yes ☐ No

If yes, provide the contact name and mailing address for the groundwater conservation district. To obtain a point of contact and mailing address refer to the Groundwater Conservation Districts Contact List[5] on the TCEQ website. [TWC §27.017(b)]

Mr. Lonnie Stewart, General Manager
Bee County Groundwater Conservation District

Physical address:	Package delivery address:
PO Box 682	169 FM 351
Beeville, TX 78104-0682	Beeville, TX 78104

5. Legal Description of Facility Land

Submit, as "Attachment C", a legal description of the tract or tracts of land upon which the facility is or will be located and the deed filing bearing the stamp of the county property records or other generally accepted identifying reference of the current ownership record. If ownership of the property is transferring and new ownership documents are not final, provide the date upon which the documents will be submitted. The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste including pre-injection units used for storage and processing waste to be injected into the injection well. The legal description should include the metes and bounds description or for platted urban sites the final plat with appropriate "lot" description(s). [THSC §361.087(2)].

See Attachment C

6. Submit, as "Attachment D", a drawn-to-scale topographic map of the facility and the tract or tracts of land upon which the facility is or will be located as described in Attachment C and area extending at least one mile beyond the tract boundaries. The map must be prepared by a licensed professional engineer or a registered surveyor. The scale should be adequate to depict the following features: [30 TAC §305.45(a)(6)(A), (C) & (E)]

See Attachment D

a. the boundary of the tract or tracts of land upon which the facility is or will be located as described in Attachment C; areal size of the tract or tracts of land in acres should be given;
b. if different, the boundary of the facility, and the location of all injection wells; each depicted area should be labeled to identify the well(s) and the well status (active, inactive, or proposed); areal size of the facility in acres should be given;
c. if applicable, the boundaries of captured facilities that generate waste to be disposed in the injection wells, each depicted area should be labeled to identify the names of the captured facilities;
d. the overall facility, each of its surface intake and discharge structures, each of its waste treatment, storage or disposal facilities, including proposed or existing pre-injection units for processing or storage of waste to be disposed in the injection wells; and

[4] https://www.twdb.texas.gov/mapping/doc/maps/GCDs_8x11.pdf
[5] https://www.tceq.texas.gov/downloads/groundwater/gcd/gcd-contact-list.pdf

e. all wells (water, oil and gas, disposal, etc.), springs, other surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant within one mile of the facility property boundary, and the purpose for which each water well is used (e.g., domestic, livestock, agricultural, industrial, etc.).

Q. Plain-Language Summary

The TCEQ implemented new rule requirements in 30 TAC Chapter 39 that impact all permit applications subject to the Chapter 39 public notice requirements that are declared administratively complete after May 1, 2022. One of the new rules, 30 TAC §39.405(k), requires the applicant to provide a plain-language summary in English, and in an alternative language if required in accordance with 30 TAC §39.426. The plain-language summaries for all applications will be posted on the TCEQ website.

For new, renewal and major amendment permit applications submit, as "Attachment E", a Plain-Language Summary of the application that is no more than two pages long. The summary should be entitled "Plain-Language Summary" and should be prepared in simple, concise, easy-to-understand terminology. The summary must include the following information. [30 TAC §39.405(k)] See Attachment E

1. the applicant/operator name;
2. the type of application;
3. the type of waste;
4. the type of facility;
5. the facility name and location;
6. the function of the proposed plant or facility;
7. the expected output of the proposed plant or facility;
8. the expected pollutants that may be emitted or discharged by the proposed plant or facility which require an injection well permit; and
9. how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

If the applicant is required to provide notice in an alternative language in accordance with 30 TAC §39.426, provide a copy of the plain-language summary in English and in the alternative language.

In addition, provide a copy of the plain-language summaries in pdf clearly labeled on a flash drive.

R. Public Involvement Plan

TCEQ's Public Participation Plan provides guidance for using preliminary screening and public involvement plans to ensure meaningful public outreach. Applicants who are applying for a new injection well permit are required to complete a Public Involvement Plan. A Public Involvement Plan is intended to provide an applicant and the agency with information to determine if additional public outreach is necessary or beneficial. Applicants may complete a Public Involvement Plan, even if not required, to learn about the communities in which their facilities are located or where their activities may have an impact.

Submit a Public Involvement Plan, as "Attachment F", using the Public Involvement Plan Form[6] (TCEQ-20960) and Instructions for Completing a Public Involvement Plan Form for Permit and Registration Applications[7] (TCEQ-20960).

For more information regarding Title VI compliance at TCEQ[8] or the Public Participation Plan[9] go on the TCEQ website.

See Attachment F

[6] https://www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/pip-form-tceq-20960.pdf
[7] https://www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/instructions-for-pip-form-tceq-20960.pdf
[8] https://www.tceq.texas.gov/agency/decisions/participation/title-vi-compliance
[9] https://www.tceq.texas.gov/downloads/agency/decisions/participation/public-participation-plan-gi-607.pdf

Signature Page

I (Signatory Name) R. Craig Wall (Title) V.P. HSE - Texas
(Company) Uranium Energy Corp certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: R. Craig Wall Date: 12/9/2024

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Rodney Wall
on this 9th day, the month of December, year of 2024
My commission expires on the 22nd day, month of November, year of 2026

Trezur Wagner
Notary Public

TREZUR WAGNER
Notary Public, State of Texas
Notary ID# 13407734-5
My Commission Expires 11-22-2026

Signature Page

I (Signatory Name) R. Craig Wall (Title) V.P. EHS - Texas
(Company) Uranium Energy Corp certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: R. Craig Wall Date: 5/1/2025

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Rodney Wall
on this 1st day, 5th month of May, year of 2025
My commission expires on the 22nd day, month of November, year of 2026

TREZUR WAGNER
Notary Public, State of Texas
Notary ID# 13407734-5
My Commission Expires 11-22-2026

Trezur Wagner
Notary Public

Facility Owner Signature Page

I (Signatory Name) Kenneth T. Barrow (Title) Vice President
(Company) Burke Hollow Corporation acknowledge that this document and all attachments were prepared by Uranium Energy Corp, or a third-party consulting firm hired by Uranium Energy Corp, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: K H T Barrow Date: May 8, 2025

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Kenneth T. Barrow
on this 8th day, _____ month of May, year of 2025
My commission expires on the 3rd day, month of March, year of 2029

AMY GOODWIN
Notary Public, State of Texas
Comm. Expires 03-03-2029
Notary ID 126824132

Amy Goodwin
Notary Public

Signature Page

I (Signatory Name) R. Craig Wall (Title) V.P EHS-Texas
(Company) Uranium Energy Corp certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: R. Craig Wall Date: 7/9/2025

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Rodney Wall
on this 9th day, _____ month of July, year of 2025
My commission expires on the 22nd day, month of ~~July~~ November, year of 2026

TREZUR WAGNER
Notary Public, State of Texas
Notary ID# 13407734-5
My Commission Expires 11-22-2026

Trezur Wagner
Notary Public

This signature also applies to the initial application submittal dated December 9, 2024.

Facility Owner Signature Page

I (Signatory Name) Daniel McElvey (Title) President
(Company) Burke Hollow Corp acknowledge that this document and all attachments were prepared by Uranium Energy Corp, or a third-party consulting firm hired by Uranium Energy Corp, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____ Date: 7/25/25

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Daniel McElvey

on this 25th day, _____ month of July, year of 2025

My commission expires on the 3rd day, month of March, year of 2029

AMY GOODWIN
Notary Public, State of Texas
Comm. Expires 03-03-2029
Notary ID 126824132

Amy Goodwin
Notary Public

II. Information Required to Provide Notice

Submit, as "Attachment G", a mailing list of landowners identified under Section II.A. and a mailing list of mineral rights owners identified under Section II.B. In accordance with 30 TAC §39.405(b), please also submit this mailing list electronically, in Microsoft Word. The electronic list must contain only the name, mailing address, city, state, and zip code with no reference to the lot number or lot location. The list should contain up to 30 names and addresses (10 per column) per page. Each name and address must be typed in the format that meets the United States Postal Service (USPS) requirements for machine readability. The letters in the name and address must be capitalized, contain no punctuation, and the two-character abbreviation must be used for the state. Contact the USPS for further instructions on formatting addresses for machine readability. The applicant may elect to submit pre-printed mailing labels of this mailing list with the application instead of submitting the mailing list electronically. If you wish to provide the list on printed labels, please use sheets of labels that have 30 labels to a page (10 labels per column). Please provide **four complete sets of labels** of the landowners and mineral rights owners list. See Attachment G

A. Provide a complete mailing address for persons who own the property on which the existing or proposed injection well facility is or will be located and all persons who own tracts of land adjacent to the property on which the existing or proposed injection well facility is or will be located and within a reasonable distance from the proposed point or points of discharge, deposit, injection, or other place of disposal or activity. Identify the tracts of land and landowners on a map and provide the general character of the areas adjacent to the facility, including public roads, towns and the nature of development of adjacent lands (e.g., residential, commercial, agricultural, recreational, industrial or undeveloped) on the map. The property boundary of the tract or tracts of land on which the existing or proposed injection facility is or will be located must be consistent with the legal description of the tract or tracts of land provided in Section I.P.5, Attachment C, of the application. (Refer to Example Application Map) [30 TAC §281.5(6), §305.45(a)(6)(B) & (D) and §39.651(c)(4)(A) & (B)]

B. Provide a complete mailing address for all persons who own the mineral rights underlying the existing or proposed injection well facility and underlying the tracts of land adjacent to the property on which the existing or proposed injection well facility is or will be located as required by 30 TAC §39.651(c)(4)(C) & (D). Identify the mineral rights owners on the map provided above in Section II.A.

C. If the facility is located adjacent to navigable territorial waters of the state, or the State of Texas is an adjacent landowner and/or owner of mineral rights underlying the facility or underlying adjacent tracts, your application may affect lands dedicated to the permanent school fund. A determination whether lands dedicated to the permanent school fund will be affected by TCEQ formal action on the application will be made by the Texas General Land Office (TXGLO).

In order for the TXGLO to make a determination, the TCEQ will provide notice to the TXGLO regarding the application. Provide the following information for inclusion in the notice to the TXGLO:

1. state the location of the permanent school fund land, mineral rights, or waters of the state that may be affected; and

   The facility location is not adjacent to navigable territorial waters of the state, nor is the State of Texas an adjacent landowner or owner of mineral rights underlying the facility or underlying adjacent tracts.

2. describe any foreseeable impact or effect of the proposed permitted action may have on permanent school fund land.

   As the State of Texas is not an adjacent land or mineral owner, no impact or effect on the permanent school fund is foreseen.

A formal action or ruling by the Commission on an application affecting permanent school fund land that is made without the notice required by 30 TAC §39.651(c)(3) is voidable by the School Land Board as to any permanent school fund lands affected by the action or ruling. [TWC §5.115(c) and (g)]

D. Provide the name and mailing address of the mayor and health authority of the municipality in whose territorial limits or extraterritorial jurisdiction the well is or will be located, and the name and mailing address of the county judge and the health authority of the county in which the facility is located. [30 TAC §39.651(c)(5)]

The Burke Hollow facility is not located within any city/town boundaries.

Beeville Mayor
Mayor: Bryan Watson
Beeville City Hall
400 N. Washington St.
Beeville, TX 78102

Nearest Health Authority
Texas Department of State Health Services
Health Service Region 11
Regional Sub-Office
601 W Sesame Dr.
Harlingen, TX 78550

County Judge
The Honorable George (Trace) Morrill, III
Bee County Judge
105 W. Corpus Christi, Rm 305
Beeville, TX 78102

County Health Authority
none

E. Bilingual Notice Instructions. For new, renewal and major amendment permit applications, public notice in an alternate language may be required. If an elementary school or middle school nearest to the facility offers a bilingual program, notice may be required to be published in an alternative language. The Texas Education Code, upon which the TCEQ alternative language notice requirements are based, requires a bilingual education program for an entire school district should the requisite alternative language speaking student population exist. However, there may not be any bilingual-speaking students at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notice in an alternative language is triggered if the nearest elementary or middle school, as part of a larger school district, is required to make a bilingual education program available to qualifying students and either the school has students enrolled at such a program on-site or has students who attend such a program at another location to satisfy the school's obligation to provide such a program. [30 TAC §39.426]

Bilingual notice confirmation for this application

1. Is the school district of the elementary or middle school nearest to the facility required by the Texas Education Code to have a bilingual program?

   ☐ Yes ☒ No

   If **no**, alternative language notice publication not required.

2. If **yes** to question 1, are students enrolled in a bilingual education program at either the elementary school or the middle school nearest to the facility?

☐ Yes ☐ No

If yes to questions 1 and 2, alternative language publication is required.
If no to question 2, then consider the next question.

3. If **yes** to question 1, are there students enrolled at either the elementary school or the middle school nearest to the facility who attend a bilingual education program at another location?

   ☐ Yes ☐ No

   If **yes** to questions 1 and 3, alternative language publication is required.
   If **no** to question 3, then consider the next question.

4. If **yes** to question 1, has the elementary school or the middle school nearest to the facility been granted an exception from the requirement to provide a bilingual education program, as available under 19 TAC §89.1207(a)?

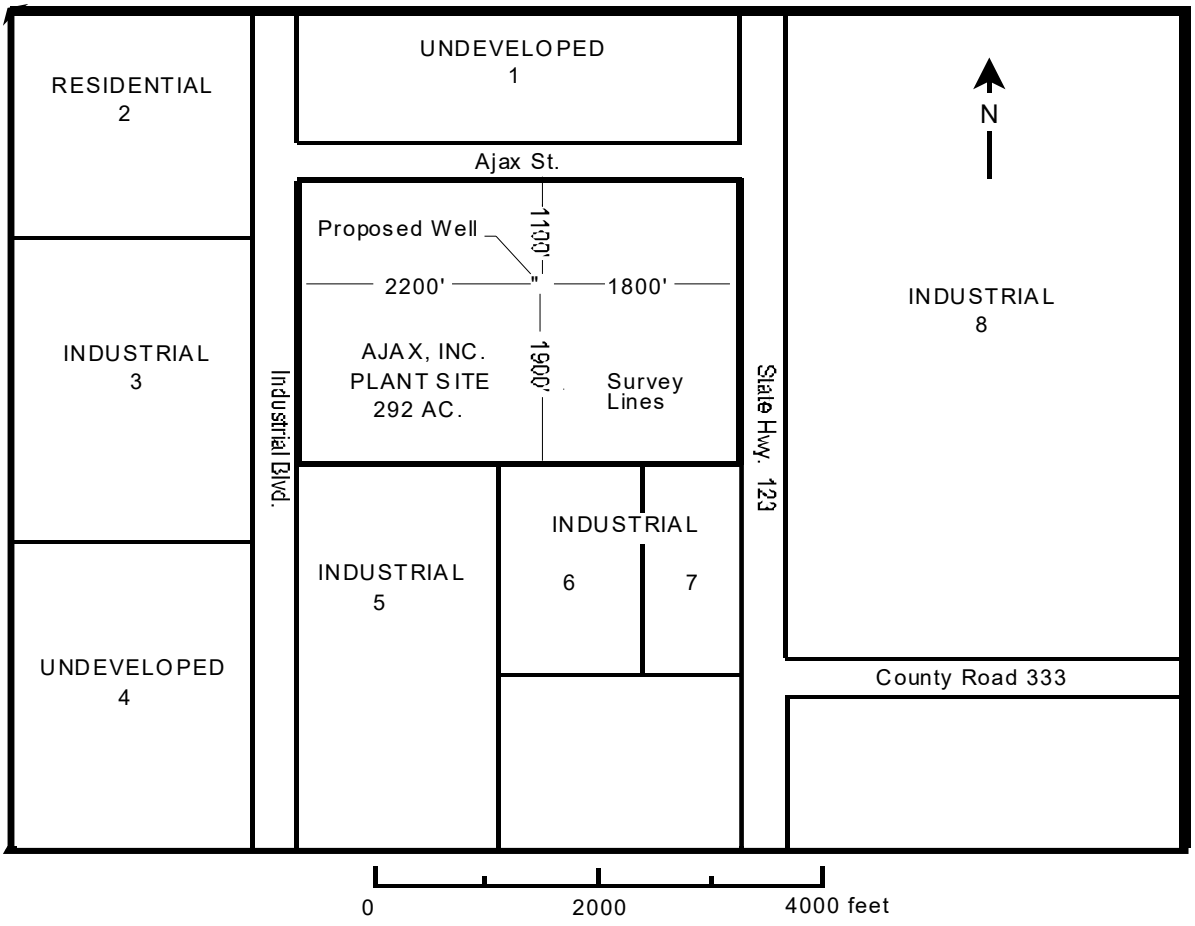
   ☐ Yes ☐ No

   If **yes** to questions 1 and 4, alternative language publication is required.
   If **no** to question 4, alternative language notice publication not required.

5. Provide the alternative language for which the bilingual education program(s) is provided or for which an exception has been approved. _____

Example Application Map

Landowners and Mineral Rights Owners



Landowners

1. Mr. & Mrs. Samuel Davis
2. Mr. & Mrs. Edward Sanchez
3. Texlink Corporation
4. Mr. & Mrs. Ted Goldsby
5. Jaxson Brewing Company
6. Plainview Company
7. ABC Chemicals Inc.
8. Big C Bottle Company

Mineral Rights Owners

1. Mr. & Mrs. Samuel Davis
   Mr. Fred Davis
   Mrs. R.C. Davis
2. The Edward Sanchez Trust
3. Cibolo Energy LP
4. Mr. Don Williams
   Mr. & Mrs. Richard Coons
   Mrs. Dorothy Moore
5. The Larson Family Trust
6. SBN Minerals, LLC
   Sorona Oil & Gas Company
   Klein Operations, LLC.
7. Jack Walsh Family Trust
8. Terrace Flats Exploration Corp.

III. Railroad Commission Letter

Submit, as "Attachment H," a letter from the Railroad Commission stating that "drilling the disposal well and injecting industrial or municipal waste into the subsurface stratum will not endanger or injure any known oil or gas resources." This letter is required with initial and renewal applications, and with permit amendment applications for injection into subsurface formations not addressed by the current Railroad Commission letter for the injection well. [30 TAC §305.49(a)(7)] See Attachment H

IV. Financial Assurance, Liability, and Financial Capability

Submit as, "Attachment I," a description of the manner in which compliance with the financial assurance and liability requirements in 30 TAC Chapter 37, Subchapter Q will be attained, and demonstration of financial capability as outlined below. For converted wells and constructed wells provide documentation that financial assurance in the amount provided in Section VI of the application will be in effect upon permit issuance. [30 TAC §305.49(a)(3)] See Attachment I

A. Financial Assurance Requirements [30 TAC §§331.142-144 and §331.68(a)(3)]

The financial assurance requirements of 30 TAC Chapter 37, Subchapter Q, require an owner or operator to submit an originally signed financial assurance mechanism to the TCEQ Financial Assurance Unit at least 60 days prior to commencement of drilling operations for new wells. All financial assurance mechanisms shall be in effect before commencement of drilling operations. For converted wells and other previously constructed wells, financial assurance shall be provided at least 30 days prior to permit issuance and be in effect upon permit issuance. [§37.7021 (c) & §37.7031(c)]

1. Financial Assurance for Closure

Secure and maintain financial assurance for plugging and abandonment of each existing and new well in the amount of the closure cost estimate in current dollars developed in accordance with 30 TAC §331.143 and included in Section VI.D. of the application using the mechanisms listed in 30 TAC §37.7021(b).

2. Financial Assurance for Post Closure Care (hazardous waste wells only)

If applicable, demonstrate and maintain financial assurance for post-closure of each existing and new hazardous waste well in the amount of the post-closure care cost estimate in current dollars developed in accordance with 30 TAC §331.68(a)(4)(F) and included in Section VI.D. of the application using the mechanisms provided in 30 TAC §37.7031(b).

B. Liability Requirements (hazardous waste wells only) [30 TAC §331.142(b)]

For hazardous waste injection wells establish and maintain liability coverage for sudden and non-sudden bodily injury and property damage to third parties caused by accidental occurrences arising from operations of the facility in accordance with the requirements of 30 TAC §37.7041. Evidence must be provided to show that the insurance policy covers the injection well(s).

C. Financial Capability Requirements (hazardous waste wells only) [30 TAC §305.49(c)]

For hazardous waste injection wells demonstrate to the satisfaction of the executive director that the applicant has sufficient financial resources to operate the facility in a safe manner and in compliance with the permit and all applicable rules, including, but not limited to, how an applicant intends to obtain financing for construction of the facility, and to close the facility properly as required by 30 TAC §305.50(a)(4)(B).

Information requirements for making this demonstration vary depending on the type of financial information available to applicants, primarily whether audited financial statements are available as well as the type of application submitted. For each type of application described below, financial information must be provided for the specific type of applicant entities.

1. New Permits, Permit Amendment for Facility Expansions, and Permit Transfers

   a. Publicly Traded Entities

      i. Securities and Exchange Commission (SEC) Form 10-Ks

         This portion of the requirement calls for the two most recent 10-K reports filed.

      ii. SEC Form 10-Q

         This portion of the requirement calls for a copy of the most recent quarterly report.

      iii. Explanation statement

         This portion of the requirement calls for a statement signed by an authorized signatory [as described in 30 TAC 305.44(a)] explaining in detail how the applicant demonstrates sufficient financial resources to construct, safely operate, properly close, perform post-closure care, perform corrective action and provide adequate liability coverage for the facility. This statement must also address how the closure, post-closure, corrective action, and liability coverage financial assurance requirements of Chapter 37, Subchapter P will be met. (i.e., which financial assurance mechanism is or will be used).

      iv. Construction capital cost estimates

         This portion of the requirement calls for estimates of capital costs for expansion and/or initial construction if the application encompasses facility expansion, capacity expansion, or new construction.

   b. Privately Held Entities with Audited Financial Statements

      i. Audited financial statements

         This portion of the requirement calls for complete copies of the audited financial statements for each of the most recent two fiscal years. If an audit has not been completed for one of the previous two years, a complete copy of the fiscal year-end financial statement and federal tax return may be substituted in lieu of the audit not performed. The tax return must be certified by original signature of an authorized signatory as being a "true and correct copy of the return filed with the Internal Revenue Service." Financial statements must be prepared consistent with generally accepted accounting principles and include a balance sheet, income statement, cash flow statement, notes to the financial statement, and an accountant's opinion letter.

      ii. Quarterly financial statement

         This portion of the requirement calls for a complete copy of the most current quarterly financial statement prepared consistent with generally accepted accounting principles. Internally prepared statements are satisfactory.

      iii. Supplementary information statement

         This portion of the requirement calls for a written statement detailing the information that would normally be found in SEC's Form 10-K including descriptions of the business and its operations; identification of any affiliated relationships; credit agreements and terms; any legal proceedings involving the applicant; contingent liabilities; and significant accounting policies.

iv. Construction capital cost estimates

This portion of the requirement calls for estimates of capital costs for expansion and/or initial construction if the application encompasses facility expansion, capacity expansion, or new construction.

v. Explanation statement

This portion of the requirement calls for a statement signed by an authorized signatory [as described in 30 TAC 305.44(a)] explaining in detail how the applicant demonstrates sufficient financial resources to construct, safely operate, properly close, perform post-closure care, perform corrective action and provide adequate liability coverage for the facility. This statement must also address how the closure, post-closure, corrective action, and liability coverage financial assurance requirements of Chapter 37, Subchapter P will be met (i.e., which financial assurance mechanism is or will be used).

c. Entities without Audited Financial Statements or Entities Choosing Not to Provide the Information Listed Above

i. Financial Plan

This portion of the requirement calls for a financial plan (including balance sheets listing assets, liabilities and capital accounts) sufficiently detailed to clearly demonstrate that the applicant will be in a position to readily secure financing for construction, operation, and closure, post-closure, and corrective action if the permit is issued. At least 3 balance sheets should be included as of: a) approximately the date of the permit application, b) 12 months after any construction is completed (or assumption of operational control for a permit transfer), and c) 24 months after any construction is completed (or assumption of operational control for a permit transfer).

ii. Letters of opinion

The submitted financial plan must be accompanied by original letters of opinion from two financial experts, not otherwise employed by the applicant, who have the demonstrated ability to either finance the facility or place the required financing. If the permit action sought involves construction of a new facility or expansion of an existing facility, the opinion letters must certify that financing is obtainable within 180 days of permit approval and include the time schedule contingent upon permit finality for securing the financing as well as certify the financial plan is reasonable. Even if the application does not involve a facility or capacity expansion, the opinion letters must certify that the financial plan is reasonable. Only one opinion letter from a financial expert, not otherwise employed by the applicant, is required if the letter renders a firm commitment to provide all the necessary financing.

Letters of opinion are usually issued by investment or commercial bankers but there could be additional sources. Applicants are encouraged to verify the adequacy of the credentials of their chosen financial expert with TCEQ's financial assurance unit prior to a formal engagement. Financial experts should describe their qualifications and disclose their independence from the applicant and/or any entity or person affiliated with the applicant.

iii. Operating and cash flow statement

This portion of the requirement calls for a written detail of the annual operating costs of the facility and a projected cash flow statement including the period of construction and first two years of operation. The cash flow statement must demonstrate the financial resources to meet operating costs, debt service, and provide financial assurance for closure, post-closure care, and liability coverage requirements. A list of the assumptions made to forecast cash flow must also be provided.

iv. Explanation statement

This portion of the requirement calls for a statement addressing how the closure, post-closure, corrective action, and liability coverage financial assurance requirements of Chapter 37, Subchapter P will be met (i.e., which financial assurance mechanism is or will be used).

v. Construction capital cost estimates

This portion of the requirement calls for estimates of capital costs for expansion and/or initial construction if the application encompasses facility expansion, capacity expansion, or new construction.

d. Entities with A Resolution from A Governing Body Approving or Agreeing to Approve the Issuance of Bonds to Satisfy Financial Assurance Requirements (e.g., a City or County)

i. Explanation statement

This portion of the requirement calls for a statement signed by an authorized signatory [as described in 30 TAC30 305.44(a)] explaining in detail how the applicant demonstrates sufficient financial resources to construct, safely operate, properly close, perform post-closure, perform corrective action and provide adequate liability coverage for the facility. This statement must also address how the closure, post-closure, corrective action, and liability coverage financial assurance requirements of Chapter 37, Subchapter P will be met (i.e., which financial assurance mechanism is or will be used).

ii. Certified copy of the resolution from the governing body

iii. Certification by the governing body of passage of the resolution

2. Permit Renewals

For all types of applicant entities, include a financial disclosure letter addressed to UIC Permits Section signed by an applicant representative meeting the application signatory requirements of 30 TAC §305.44 stating the following information:

> "This letter is furnished to you in response to financial disclosure requirements as applicable under Texas Health and Safety Code Section 361.085 and Title 30, Texas Administrative Code (30 TAC), Section 305.50 to provide assurance that [name of applicant] has sufficient financial resources.
>
> In keeping with the above law and rule requirements I hereby certify that [name of applicant] is adequately capitalized and has sufficient financial resources to operate, close, provide post-closure care for and perform corrective action for the above-referenced facility in a safe manner, and in compliance with the permit and all applicable rules.
>
> [name of applicant] currently provides a [describe type of mechanism, i.e., letter of credit, surety bond, etc.] financial assurance mechanism as set out in 30 TAC, Chapter 37, Subchapter C to meet [name of applicant]'s financial assurance obligations.
>
> I am authorized to make these statements on behalf of [name of applicant]. I understand that the TCEQ may request additional information as part of their review."

WDW 448

Texas Commission on Environmental Quality
Permit Application to Dispose of Waste
In A Class I Injection Well

I. General Information

A. Type of Application (check all that apply):

☐ Initial
☒ Renewal
☐ Major Amendment
☐ Minor Amendment
☐ Minor Modification
☐ Transfer
☐ Endorsement

Type of Waste (check all that apply):

☐ Hazardous Waste
☒ Nonhazardous Waste

Type of Facility (check all that apply):

☐ Commercial
☒ Noncommercial

Source of waste for noncommercial (check all that apply):

☒ Onsite
☐ Captured facility
☐ Offsite from facilities owned or effectively controlled by owner/operator

B. Facility Name: Burke Hollow Project
Street Address: 87 PR 6003 Beeville
City, State, Zip: Beeville, Bee County Texas
Mailing Address: 500North Shoreline Blvd, Suite 800N
Mailing City, State, Zip: Corpus Christi, TX 78401
County: Bee County
TCEQ Solid Waste Registration (SWR) Number: NA
EPA ID Number: NA

Give a description of the location of the facility site with respect to known or easily identifiable landmarks. Detail the access routes from the nearest U.S. or State Highway to the facility:

The Uranium Energy Corporation Burke Hollow facility is located on an 11,359-acre area site in Bee County, Texas. The main entrance to the Burke Hollow Project is located approximately 38 miles north of Corpus Christi or 3 miles south of Woodsboro on Hwy 77. The actual plant and wellfields are located an additional 12 miles west of the Hwy 77 entrance via caliche road.

Is the facility located within the Coastal Management Program boundary? Refer to Texas Coastal Management Boundary Map[1] for boundary. For questions regarding the Coastal Management Program, please call (800) 998-4456 (within Texas) or (512) 475-0773. [30 TAC §281.41]

☐ Yes ☒ No

Provide the location of the injection well relative to established surveys:

The well will be located approximately 9,200 feet from the north line and 3,700 feet from the west line of the M. De Los Santos Survey, Abstract A-64, Latitude 28°16'40" North, Longitude 97°30'02" West, Bee County, Texas.

Enter the geographical coordinates of the injection well in decimal degrees to 6 decimal places:

Latitude: 28.27778
Longitude: -97.500557

Provide the depths of the injection zone and injection interval:

Injection Zone: Lower Anahuac and Upper Frio Formation(s) at depths of 3,060 to 3,900 feet below ground level.

Injection Interval: Heterostegina Sand Formation(s) at depths of 3,155 to 3,900 feet below ground level

C. Operator/Applicant (Individual, Corporation, or other Legal Entity Name)

Name: Uranium Energy Corp
Address: 500 North Shoreline Blvd. Suite 800 N
City, State and Zip: Corpus Christi, Texas 78401
Telephone Number: (361) 888-8235

If the application is submitted on behalf of a corporation or other business organization with filing requirements, please identify the Charter Filing Number as recorded with the Office of the Secretary of State for Texas.

Charter Filing Number: 800436242

Is the applicant required to designate a registered agent with the Secretary of State of Texas?

☒ Yes ☐ No

If the application is submitted by a business organization that is required to designate and maintain a registered agent, the applicant must provide the name and address of the registered agent.

Agent: Incorp Services, Inc.
Address: 815 Brazos St. Suite 500
City, State, and Zip: Ausitn, TX 78701
Telephone Number: 1-800-246-2677

[1] https://www.glo.texas.gov/coast/coastal-management/forms/files/CoastalBoundaryMap.pdf

D. Facility Owner(s) (Individual, Corporation, or other Legal Entity Name)

The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. The facility owner must be consistent with the owner on the deed filing bearing the stamp of the county property records or other generally accepted identifying reference of the current ownership record provided in Section I.P.5, Attachment C of the application. If the facility owner is the same as the operator, state "same as operator". If the facility land, structures, appurtenances, and improvements on the land are owned by more than one individual, corporation or other legal entity, provide the following information for all owners. Clearly identify the relationship(s) between the operator and all facility owner(s). [THSC §361.087(1)]

Name: Burke Hollow Corporation
Address: 1800 Augusta Dr., Ste. 212
City, State, Zip: Houston, TX 77057-3131
Telephone Number: 713-789-0090
Charter Filing Number: 108719000

E. Indicate the ownership status of the facility.

Private:
☒ Corporation
☐ Partnership
☐ Proprietorship
☐ Nonprofit organization

Public:

☐ Military
☐ State
☐ Regional
☐ County
☐ Municipal
☐ Federal

Other (specify): _____

F. List those persons or firms authorized to act for the applicant during the processing of the permit application. Indicate the capacity in which each person may represent the applicant (engineering, geology, legal, etc.). The person listed first will be the primary recipient of correspondence regarding this application. Include complete mailing addresses, phone numbers and e-mail addresses.

Mr. Craig Wall, EH & S Manager
Uranium Energy Corporation
500 North Shoreline Blvd., Suite 800N
Corpus Christi, TX 78401
(381)888-8235 ext. 230
cwall@uraniumenergy.com

Ms. Stephanie K. Williams, P.G.
Terra Dynamics Inc.
2300 Greenhill Drive Suite 700
Round Rock, TX 78664
512-795-8183
swilliams@terradyn.com

G. For new, renewal, and major amendment applications specify the individual who will be responsible for causing notice to be published in the newspaper. Include the complete mailing address, telephone number, fax number and e-mail address.

Mr. Craig Wall cwall@uraniumenergy.com
Uranium Energy Corporation
500 North Shoreline Blvd., Suite 800N
Corpus Christi, TX 78401
Phone: (361) 888-8235 ext. 230 FAX: (361) 888-5041

H. Describe the activities conducted by the applicant which require a permit.

Injection of non-hazardous wastewater from in situ uranium mining and well field restoration operations.

I. For amendment, modification, transfer or endorsement applications, briefly describe all requested changes to the permit and to the application contents and the reasons for the changes.

NA

J. Business Information

1. Give a brief description of the nature of your business.

   In situ uranium mining.

2. List the principal products and/or services which are provided by your plant. Please itemize by Standard Industrial Classification (SIC) codes. Also label the products with their common names, if applicable.

   SIC Code 1094: Uranium-Radium-Vanadium Ores

K. Applicant Compliance History

The TCEQ will utilize compliance history when making decisions regarding the issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit. Violations included in a criminal conviction are considered when evaluating and classifying the site's compliance history.

For the five years preceding the filing date of this application, please submit a complete listing of all criminal convictions (i.e., State or Federal) of the operator and facility owner in which a violation of environmental law was an element of the crime. [30 TAC §60.2(d)(1)(E) and §60.2(d)(2)(F)] If there have been no such convictions then the application should state the following. If the operator is not the facility owner, a separate statement should be provided for each facility owner.

> In the five years preceding the filing of this application (the operator/applicant, owner), Uranium Energy Corp, has not been convicted of a State or Federal crime in which a violation of environmental law was an element of the crime.
>
> In the five years preceding the filing of this application (the operator/applicant, owner), Burke Hollow Corporation, has not been convicted of a State or Federal crime in which a violation of environmental law was an element of the crime.

L. TCEQ Core Data Form

The TCEQ requires that a Core Data Form[2] (TCEQ-10400) be submitted with all new and renewal applications. Submit the form as "Attachment A". For all other applications, if a Regulated Entity Number (RN) and Customer Reference Number (CN) have been issued by the TCEQ and core data information has not changed, a Core Data Form is not required. For more information regarding the Core Data Form, call (512) 239-5175 or go to the Core Data Form Instructions[3] on the TCEQ website. See Attachment A

RN 107228371
CN 603228461

M. Public Interest Demonstration

Section 27.051 of the Texas Water Code (TWC) stipulates certain conditions that must exist for the Commission to grant an application and issue a permit. For all new applications, permit renewals, and major and minor amendments, submit as "Attachment B" information addressing the following considerations: See Attachment B

1. That the use or installation of the injection well is in the public interest. [TWC§27.051(a)(1)]

2. That no existing rights, including, but not limited to, mineral rights, will be impaired. [TWC §27.051(a)(2)]

3. That, with proper safeguards, both ground and surface fresh water can be adequately protected from pollution. [TWC §27.051(a)(3)]

4. That the applicant has made a satisfactory showing of financial responsibility if required by Section 27.073 of this code. [TWC §27.051(a)(4)]

5. That the compliance history of the applicant and related entities is acceptable. [TWC §27.051(d)(1), 30 TAC § 331.121(b)(1)]

6. That there is no practical, economic, and feasible alternative to an injection well reasonably available. Provide justification for subsurface disposal. Include results of treatability studies of alternate, practical, economic and feasible methods of waste disposal. Explain in detail why each method is considered to be less satisfactory in terms of environmental protection than the proposed subsurface disposal method. Indicate whether this waste is presently being produced and, if so, what method is used for disposal. Describe the manufacturing process(es) and product(s) which produce the waste(s). [TWC §27.051(d)(2), 30 TAC § 331.121(b)(2)]

7. (for hazardous waste injection wells only) That the applicant has provided for the proper operation of the proposed hazardous waste injection well. [TWC §27.051(a)(5)]

8. (for hazardous waste injection wells only) That the applicant for a hazardous waste injection well not located in an area of industrial land use has made a reasonable effort to ensure that the burden, if any, imposed by the proposed hazardous waste injection well on local law enforcement, emergency medical or fire-fighting personnel, or public roadways, will be reasonably minimized or mitigated. [TWC §27.051(a)(6)]

[2] https://www.tceq.texas.gov/downloads/permitting/central-registry-docs/10400-core-data-form.docx
[3] https://www.tceq.texas.gov/downloads/permitting/central-registry-docs/10400-core-data-form-instructions.pdf

9. (for hazardous waste injection wells only) That the applicant owns or has made a good faith claim to own, or has the consent of the owner to utilize, or has an option to acquire, or has the authority to acquire through eminent domain, the property or portions of the property where the hazardous waste injection well will be constructed. [TWC §27.051(a)(7)]

10. (for hazardous waste injection wells only) That the applicant will maintain sufficient public liability insurance for bodily injury and property damage to third parties that is caused by sudden and non-sudden accidents or will otherwise demonstrate financial responsibility in a manner adopted by the Commission in lieu of public liability insurance. [TWC §27.051(d)(3), 30 TAC § 331.121(b)(3)]

11. (for hazardous waste injection wells only) For on-site generated waste, provide certification by the owner/operator that (1) the generator of the hazardous waste has a program to reduce the volume or quantity and toxicity of the waste to the degree determined by the generator to be economically practicable, and (2) injection of the waste is that practicable method of disposal currently available to the generator which minimizes the present and future threat to human health and the environment. [30 TAC §331.121(b)(4)]

N. For applications for new permits, renewals, and major amendments, a copy of the administratively complete application and subsequent revisions must be made available at a 10public place in the county where the facility is located or proposed to be located for review and copying by the public. Identify the public place in the county (e.g., public library, county courthouse, city hall), including the address, where the application will be located. [30 TAC §39.405(g)]

Joe Barnhart Bee County Library
110 W. Corpus Christi St.
Beeville, TX 78102

O. Facility Background Information [30 TAC §305.45(a)(7)]

Indicate (by listing the permit number(s) and governing agency(ies) in the columns below) all existing, pending, interim status, or permit-by-rule State and/or Federal permits, licenses or construction approvals which pertain to pollution control or industrial solid waste management activities conducted by your plant or at your location, or existing at a proposed plant or location. Complete each blank by entering either the **permit number** or **the date of application**, and the **governing agency** or **none**.

Existing Permits

Relevant Program and/or Law	Permit Number or License	Government Agency *
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	none	
UIC Program under the Texas Injection Well Act (Class I, II, III, IV, V and VI Wells)	WDW-447 WDW-448 UR03090	TCEQ
Texas Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under the Texas Water Code, Chapter 26	none	
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA)	none	
Nonattainment Program under the FCAA	none	

Relevant Program and/or Law	Permit Number or License	Government Agency *
National Emission Standards for Hazardous Air Pollutants preconstruction approval under the FCAA	none	
Ocean dumping permits under the Marine Protection Research and Sanctuaries Act	none	
Dredge or fill permits under the Federal Clean Water Act	none	
Licenses under the Texas Radiation Control Act	none	
Subsurface Area Drip Dispersal System permits under Texas Water Code, Chapter 32	none	
Texas Solid Waste Disposal Act	none	
Texas Uranium Surface Mining and Reclamation Act	R06066	TCEQ
Texas Surface Coal Mining and Reclamation Act	none	
Other relevant environmental permits/licenses	150L	RRC

* Use the following acronyms for each agency:
TCEQ = Texas Commission on Environmental Quality
RRC = Railroad Commission of Texas
DSHS = Department of State Health Services
TDA = Texas Department of Agriculture
EPA = U.S. Environmental Protection Agency
CORPS = U.S. Army Corps of Engineers

P. Location

1. Is the facility located on Indian lands?

   ☐ Yes ☒ No

   If yes, do not complete this application. Contact EPA Region 6 for application and permitting requirements for injection wells located on Indian lands. [40 CFR §147.2205(a)]

2. Is the facility located in an area in which the governing body of the county or municipality has prohibited the processing or disposal of municipal hazardous waste or industrial solid waste?

   ☐ Yes ☒ No

   If yes, do not complete this application. TCEQ may not grant an application for an injection well permit in this area. [THSC §363.112(d)]

3. If the facility is a new commercial hazardous waste management facility, or the subsequent areal expansion of such a facility, is the boundary of the well or pre-injection units to be located within ½ of a mile of an established residence, church, school, day care center, surface water body used for public drinking water supply, or dedicated park?

   ☐ Yes ☒ No

   If yes, provide If yes, do not complete this application. TCEQ may not issue a permit for a facility in this location. [30 TAC §335.205(a)(3)]

4. Is the location or proposed location of the injection well in the territory of a groundwater conservation district? To determine if the injection well is or will be located in the

territory of a groundwater conservation district refer to the Texas Groundwater Conservation District map[4] on the TWDB website.

☒ Yes ☐ No

If yes, provide the contact name and mailing address for the groundwater conservation district. To obtain a point of contact and mailing address refer to the Groundwater Conservation Districts Contact List[5] on the TCEQ website. [TWC §27.017(b)]

Mr. Lonnie Stewart, General Manager
Bee County Groundwater Conservation District

Physical address:	Package delivery address:
PO Box 682	169 FM 351
Beeville, TX 78104-0682	Beeville, TX 78104

5. Legal Description of Facility Land

Submit, as "Attachment C", a legal description of the tract or tracts of land upon which the facility is or will be located and the deed filing bearing the stamp of the county property records or other generally accepted identifying reference of the current ownership record. If ownership of the property is transferring and new ownership documents are not final, provide the date upon which the documents will be submitted. The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste including pre-injection units used for storage and processing waste to be injected into the injection well. The legal description should include the metes and bounds description or for platted urban sites the final plat with appropriate "lot" description(s). [THSC §361.087(2)].

See Attachment C

6. Submit, as "Attachment D", a drawn-to-scale topographic map of the facility and the tract or tracts of land upon which the facility is or will be located as described in Attachment C and area extending at least one mile beyond the tract boundaries. The map must be prepared by a licensed professional engineer or a registered surveyor. The scale should be adequate to depict the following features: [30 TAC §305.45(a)(6)(A), (C) & (E)]

See Attachment D

a. the boundary of the tract or tracts of land upon which the facility is or will be located as described in Attachment C; areal size of the tract or tracts of land in acres should be given;
b. if different, the boundary of the facility, and the location of all injection wells; each depicted area should be labeled to identify the well(s) and the well status (active, inactive, or proposed); areal size of the facility in acres should be given;
c. if applicable, the boundaries of captured facilities that generate waste to be disposed in the injection wells, each depicted area should be labeled to identify the names of the captured facilities;
d. the overall facility, each of its surface intake and discharge structures, each of its waste treatment, storage or disposal facilities, including proposed or existing pre-injection units for processing or storage of waste to be disposed in the injection wells; and

[4] https://www.twdb.texas.gov/mapping/doc/maps/GCDs_8x11.pdf
[5] https://www.tceq.texas.gov/downloads/groundwater/gcd/gcd-contact-list.pdf

e. all wells (water, oil and gas, disposal, etc.), springs, other surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant within one mile of the facility property boundary, and the purpose for which each water well is used (e.g., domestic, livestock, agricultural, industrial, etc.).

Q. Plain-Language Summary

The TCEQ implemented new rule requirements in 30 TAC Chapter 39 that impact all permit applications subject to the Chapter 39 public notice requirements that are declared administratively complete after May 1, 2022. One of the new rules, 30 TAC §39.405(k), requires the applicant to provide a plain-language summary in English, and in an alternative language if required in accordance with 30 TAC §39.426. The plain-language summaries for all applications will be posted on the TCEQ website.

For new, renewal and major amendment permit applications submit, as "Attachment E", a Plain-Language Summary of the application that is no more than two pages long. The summary should be entitled "Plain-Language Summary" and should be prepared in simple, concise, easy-to-understand terminology. The summary must include the following information. [30 TAC §39.405(k)] See Attachment E

1. the applicant/operator name;
2. the type of application;
3. the type of waste;
4. the type of facility;
5. the facility name and location;
6. the function of the proposed plant or facility;
7. the expected output of the proposed plant or facility;
8. the expected pollutants that may be emitted or discharged by the proposed plant or facility which require an injection well permit; and
9. how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

If the applicant is required to provide notice in an alternative language in accordance with 30 TAC §39.426, provide a copy of the plain-language summary in English and in the alternative language.

In addition, provide a copy of the plain-language summaries in pdf clearly labeled on a flash drive.

R. Public Involvement Plan

TCEQ's Public Participation Plan provides guidance for using preliminary screening and public involvement plans to ensure meaningful public outreach. Applicants who are applying for a new injection well permit are required to complete a Public Involvement Plan. A Public Involvement Plan is intended to provide an applicant and the agency with information to determine if additional public outreach is necessary or beneficial. Applicants may complete a Public Involvement Plan, even if not required, to learn about the communities in which their facilities are located or where their activities may have an impact.

Submit a Public Involvement Plan, as "Attachment F", using the Public Involvement Plan Form[6] (TCEQ-20960) and Instructions for Completing a Public Involvement Plan Form for Permit and Registration Applications[7] (TCEQ-20960).

For more information regarding Title VI compliance at TCEQ[8] or the Public Participation Plan[9] go on the TCEQ website.

See Attachment F

[6] https://www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/pip-form-tceq-20960.pdf
[7] https://www.tceq.texas.gov/downloads/agency/decisions/hearings/environmental-equity/instructions-for-pip-form-tceq-20960.pdf
[8] https://www.tceq.texas.gov/agency/decisions/participation/title-vi-compliance
[9] https://www.tceq.texas.gov/downloads/agency/decisions/participation/public-participation-plan-gi-607.pdf

Signature Page

I (Signatory Name) R. Craig Wall (Title) V.P. HSE - Texas
(Company) Uranium Energy Corp certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: R. Craig Wall Date: 12/9/2024

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Rodney Craig Wall
on this 4th day, the month of December, year of 2024
My commission expires on the 22nd day, month of November, year of 2026

Trezur Wagner
Notary Public

TREZUR WAGNER
Notary Public, State of Texas
Notary ID# 13407734-5
My Commission Expires 11-22-2026

Signature Page

I (Signatory Name) R. Craig Wall (Title) V.P. EH&S - Texas
(Company) Uranium Energy Corp certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: R. Craig Wall Date: 5/1/2025

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Rodney Wall
on this 1st day, 1st 5th month of May, year of 2025
My commission expires on the 22nd day, month of November, year of 2026

TREZUR WAGNER
Notary Public, State of Texas
Notary ID# 13407734-5
My Commission Expires 11-22-2026

Trezur Wagner
Notary Public

Facility Owner Signature Page

I (Signatory Name) Kenneth T. Barrow (Title) Vice President
(Company) Burke Hollow Corporation acknowledge that this document and all attachments were prepared by Uranium Energy Corp, or a third-party consulting firm hired by Uranium Energy Corp, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: /K T Barrow Date: May 8, 2025

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Kenneth T. Barrow
on this 8th day, _____ month of May, year of 2025
My commission expires on the 3rd day, month of March, year of 2029

AMY GOODWIN
Notary Public, State of Texas
Comm. Expires 03-03-2029
Notary ID 126824132

Amy Goodwin
Notary Public

Signature Page

I (Signatory Name) R. Craig Wall (Title) V.P. EH&S - Texas
(Company) Uranium Energy Corp certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: R. Craig Wall Date: 7/9/2025

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Rodney Wall
on this 9th day, _____ month of July, year of 2025
My commission expires on the 22nd day, month of November, year of 2026

TREZUR WAGNER
Notary Public, State of Texas
Notary ID# 13407734-5
My Commission Expires 11-22-2026

Trezur Wagner
Notary Public

This signature also applies to the initial application submittal dated December 9, 2024.

Facility Owner Signature Page

I (Signatory Name) Daniel McCelvey (Title) President
(Company) Burke Hollow Corp acknowledge that this document and all attachments were prepared by Uranium Energy Corp, or a third-party consulting firm hired by Uranium Energy Corp, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____ Date: 7/25/25

See 30 TAC §305.44 for signatory authority.

Applications must be signed by the operator of the facility and the facility owner(s). The facility includes all contiguous land, and structures, other appurtenances, and improvements on the land, used for storing, processing, or disposing of waste. Duplicate this page for additional signatories.

To Be Completed by the Applicant if the Applicant Is a Corporation and the Responsible Corporate Officer Is Assigning or Delegating Signature Authority to a Manager in Accordance with 30 TAC §305.44(a)(1)

I (Signatory Name) _____ (Title) _____
(Company) _____ hereby designate (Agent Name and/or Title) _____ as my agent and hereby authorize said agent to sign any application, submit additional information as may be requested by the Commission, and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my agent in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Signature: _____ Date: _____

(Note: Application Must Bear Signature and Seal of Notary Public)

SUBSCRIBED AND SWORN to before me by the said Daniel McCelvey
on this 25th day, _____ month of July, year of 2025
My commission expires on the 3rd day, month of March, year of 2029

AMY GOODWIN
Notary Public, State of Texas
Comm. Expires 03-03-2029
Notary ID 126824132

_____
Notary Public

II. Information Required to Provide Notice

Submit, as "Attachment G", a mailing list of landowners identified under Section II.A. and a mailing list of mineral rights owners identified under Section II.B. In accordance with 30 TAC §39.405(b), please also submit this mailing list electronically, in Microsoft Word. The electronic list must contain only the name, mailing address, city, state, and zip code with no reference to the lot number or lot location. The list should contain up to 30 names and addresses (10 per column) per page. Each name and address must be typed in the format that meets the United States Postal Service (USPS) requirements for machine readability. The letters in the name and address must be capitalized, contain no punctuation, and the two-character abbreviation must be used for the state. Contact the USPS for further instructions on formatting addresses for machine readability. The applicant may elect to submit pre-printed mailing labels of this mailing list with the application instead of submitting the mailing list electronically. If you wish to provide the list on printed labels, please use sheets of labels that have 30 labels to a page (10 labels per column). Please provide **four complete sets of labels** of the landowners and mineral rights owners list. See Attachment G

A. Provide a complete mailing address for persons who own the property on which the existing or proposed injection well facility is or will be located and all persons who own tracts of land adjacent to the property on which the existing or proposed injection well facility is or will be located and within a reasonable distance from the proposed point or points of discharge, deposit, injection, or other place of disposal or activity. Identify the tracts of land and landowners on a map and provide the general character of the areas adjacent to the facility, including public roads, towns and the nature of development of adjacent lands (e.g., residential, commercial, agricultural, recreational, industrial or undeveloped) on the map. The property boundary of the tract or tracts of land on which the existing or proposed injection facility is or will be located must be consistent with the legal description of the tract or tracts of land provided in Section I.P.5, Attachment C, of the application. (Refer to Example Application Map) [30 TAC §281.5(6), §305.45(a)(6)(B) & (D) and §39.651(c)(4)(A) & (B)]

B. Provide a complete mailing address for all persons who own the mineral rights underlying the existing or proposed injection well facility and underlying the tracts of land adjacent to the property on which the existing or proposed injection well facility is or will be located as required by 30 TAC §39.651(c)(4)(C) & (D). Identify the mineral rights owners on the map provided above in Section II.A.

C. If the facility is located adjacent to navigable territorial waters of the state, or the State of Texas is an adjacent landowner and/or owner of mineral rights underlying the facility or underlying adjacent tracts, your application may affect lands dedicated to the permanent school fund. A determination whether lands dedicated to the permanent school fund will be affected by TCEQ formal action on the application will be made by the Texas General Land Office (TXGLO).

In order for the TXGLO to make a determination, the TCEQ will provide notice to the TXGLO regarding the application. Provide the following information for inclusion in the notice to the TXGLO:

1. state the location of the permanent school fund land, mineral rights, or waters of the state that may be affected; and

   The facility location is not adjacent to navigable territorial waters of the state, nor is the State of Texas an adjacent landowner or owner of mineral rights underlying the facility or underlying adjacent tracts.

2. describe any foreseeable impact or effect of the proposed permitted action may have on permanent school fund land.

   As the State of Texas is not an adjacent land or mineral owner, no impact or effect on the permanent school fund is foreseen.

A formal action or ruling by the Commission on an application affecting permanent school fund land that is made without the notice required by 30 TAC §39.651(c)(3) is voidable by the School Land Board as to any permanent school fund lands affected by the action or ruling. [TWC §5.115(c) and (g)]

D. Provide the name and mailing address of the mayor and health authority of the municipality in whose territorial limits or extraterritorial jurisdiction the well is or will be located, and the name and mailing address of the county judge and the health authority of the county in which the facility is located. [30 TAC §39.651(c)(5)]

The Burke Hollow facility is not located within any city/town boundaries.

Beeville Mayor
Mayor: Bryan Watson
Beeville City Hall
400 N. Washington St.
Beeville, TX 78102

Nearest Health Authority
Texas Department of State Health Services
Health Service Region 11
Regional Sub-Office
601 W Sesame Dr.
Harlingen, TX 78550

County Judge
The Honorable George (Trace) Morrill, III
Bee County Judge
105 W. Corpus Christi, Rm 305
Beeville, TX 78102

County Health Authority
none

E. Bilingual Notice Instructions. For new, renewal and major amendment permit applications, public notice in an alternate language may be required. If an elementary school or middle school nearest to the facility offers a bilingual program, notice may be required to be published in an alternative language. The Texas Education Code, upon which the TCEQ alternative language notice requirements are based, requires a bilingual education program for an entire school district should the requisite alternative language speaking student population exist. However, there may not be any bilingual-speaking students at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notice in an alternative language is triggered if the nearest elementary or middle school, as part of a larger school district, is required to make a bilingual education program available to qualifying students and either the school has students enrolled at such a program on-site or has students who attend such a program at another location to satisfy the school's obligation to provide such a program. [30 TAC §39.426]

Bilingual notice confirmation for this application

1. Is the school district of the elementary or middle school nearest to the facility required by the Texas Education Code to have a bilingual program?

   ☐ Yes ☒ No

   If **no**, alternative language notice publication not required.

2. If **yes** to question 1, are students enrolled in a bilingual education program at either the elementary school or the middle school nearest to the facility?

☐ Yes ☐ No

If yes to questions 1 and 2, alternative language publication is required.
If no to question 2, then consider the next question.

3. If **yes** to question 1, are there students enrolled at either the elementary school or the middle school nearest to the facility who attend a bilingual education program at another location?

   ☐ Yes ☐ No

   If **yes** to questions 1 and 3, alternative language publication is required.
   If **no** to question 3, then consider the next question.

4. If **yes** to question 1, has the elementary school or the middle school nearest to the facility been granted an exception from the requirement to provide a bilingual education program, as available under 19 TAC §89.1207(a)?

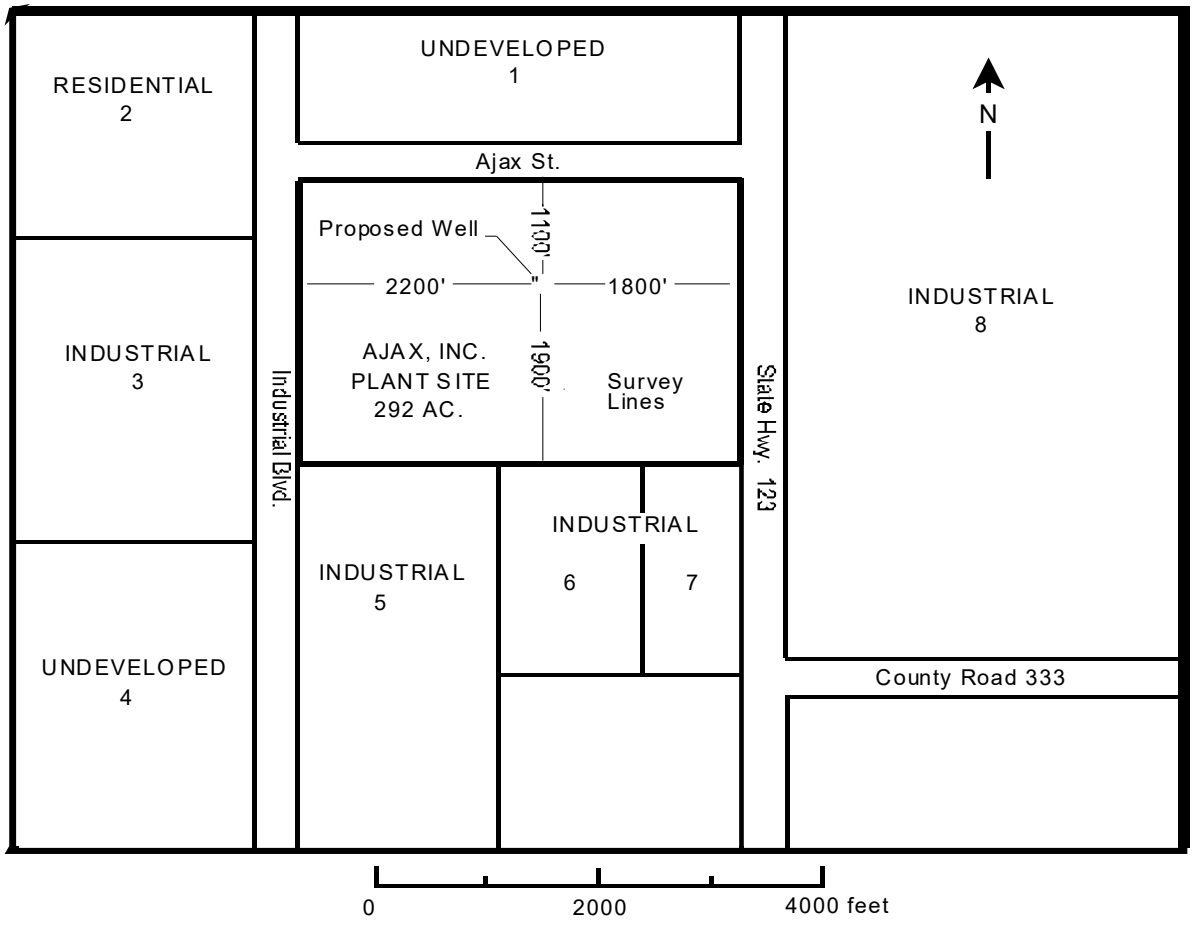
   ☐ Yes ☐ No

   If **yes** to questions 1 and 4, alternative language publication is required.
   If **no** to question 4, alternative language notice publication not required.

5. Provide the alternative language for which the bilingual education program(s) is provided or for which an exception has been approved. _____

Example Application Map

Landowners and Mineral Rights Owners



Landowners

1. Mr. & Mrs. Samuel Davis
2. Mr. & Mrs. Edward Sanchez
3. Texlink Corporation
4. Mr. & Mrs. Ted Goldsby
5. Jaxson Brewing Company
6. Plainview Company
7. ABC Chemicals Inc.
8. Big C Bottle Company

Mineral Rights Owners

1. Mr. & Mrs. Samuel Davis
   Mr. Fred Davis
   Mrs. R.C. Davis
2. The Edward Sanchez Trust
3. Cibolo Energy LP
4. Mr. Don Williams
   Mr. & Mrs. Richard Coons
   Mrs. Dorothy Moore
5. The Larson Family Trust
6. SBN Minerals, LLC
   Sorona Oil & Gas Company
   Klein Operations, LLC.
7. Jack Walsh Family Trust
8. Terrace Flats Exploration Corp.

III. Railroad Commission Letter

Submit, as "Attachment H," a letter from the Railroad Commission stating that "drilling the disposal well and injecting industrial or municipal waste into the subsurface stratum will not endanger or injure any known oil or gas resources." This letter is required with initial and renewal applications, and with permit amendment applications for injection into subsurface formations not addressed by the current Railroad Commission letter for the injection well. [30 TAC §305.49(a)(7)] See Attachment H

IV. Financial Assurance, Liability, and Financial Capability

Submit as, "Attachment I," a description of the manner in which compliance with the financial assurance and liability requirements in 30 TAC Chapter 37, Subchapter Q will be attained, and demonstration of financial capability as outlined below. For converted wells and constructed wells provide documentation that financial assurance in the amount provided in Section VI of the application will be in effect upon permit issuance. [30 TAC §305.49(a)(3)] See Attachment I

A. Financial Assurance Requirements [30 TAC §§331.142-144 and §331.68(a)(3)]

The financial assurance requirements of 30 TAC Chapter 37, Subchapter Q, require an owner or operator to submit an originally signed financial assurance mechanism to the TCEQ Financial Assurance Unit at least 60 days prior to commencement of drilling operations for new wells. All financial assurance mechanisms shall be in effect before commencement of drilling operations. For converted wells and other previously constructed wells, financial assurance shall be provided at least 30 days prior to permit issuance and be in effect upon permit issuance. [§37.7021 (c) & §37.7031(c)]

1. Financial Assurance for Closure

Secure and maintain financial assurance for plugging and abandonment of each existing and new well in the amount of the closure cost estimate in current dollars developed in accordance with 30 TAC §331.143 and included in Section VI.D. of the application using the mechanisms listed in 30 TAC §37.7021(b).

2. Financial Assurance for Post Closure Care (hazardous waste wells only)

If applicable, demonstrate and maintain financial assurance for post-closure of each existing and new hazardous waste well in the amount of the post-closure care cost estimate in current dollars developed in accordance with 30 TAC §331.68(a)(4)(F) and included in Section VI.D. of the application using the mechanisms provided in 30 TAC §37.7031(b).

B. Liability Requirements (hazardous waste wells only) [30 TAC §331.142(b)]

For hazardous waste injection wells establish and maintain liability coverage for sudden and non-sudden bodily injury and property damage to third parties caused by accidental occurrences arising from operations of the facility in accordance with the requirements of 30 TAC §37.7041. Evidence must be provided to show that the insurance policy covers the injection well(s).

C. Financial Capability Requirements (hazardous waste wells only) [30 TAC §305.49(c)]

For hazardous waste injection wells demonstrate to the satisfaction of the executive director that the applicant has sufficient financial resources to operate the facility in a safe manner and in compliance with the permit and all applicable rules, including, but not limited to, how an applicant intends to obtain financing for construction of the facility, and to close the facility properly as required by 30 TAC §305.50(a)(4)(B).

Information requirements for making this demonstration vary depending on the type of financial information available to applicants, primarily whether audited financial statements are available as well as the type of application submitted. For each type of application described below, financial information must be provided for the specific type of applicant entities.

1. New Permits, Permit Amendment for Facility Expansions, and Permit Transfers

   a. Publicly Traded Entities

      i. Securities and Exchange Commission (SEC) Form 10-Ks

         This portion of the requirement calls for the two most recent 10-K reports filed.

      ii. SEC Form 10-Q

         This portion of the requirement calls for a copy of the most recent quarterly report.

      iii. Explanation statement

         This portion of the requirement calls for a statement signed by an authorized signatory [as described in 30 TAC 305.44(a)] explaining in detail how the applicant demonstrates sufficient financial resources to construct, safely operate, properly close, perform post-closure care, perform corrective action and provide adequate liability coverage for the facility. This statement must also address how the closure, post-closure, corrective action, and liability coverage financial assurance requirements of Chapter 37, Subchapter P will be met. (i.e., which financial assurance mechanism is or will be used).

      iv. Construction capital cost estimates

         This portion of the requirement calls for estimates of capital costs for expansion and/or initial construction if the application encompasses facility expansion, capacity expansion, or new construction.

   b. Privately Held Entities with Audited Financial Statements

      i. Audited financial statements

         This portion of the requirement calls for complete copies of the audited financial statements for each of the most recent two fiscal years. If an audit has not been completed for one of the previous two years, a complete copy of the fiscal year-end financial statement and federal tax return may be substituted in lieu of the audit not performed. The tax return must be certified by original signature of an authorized signatory as being a "true and correct copy of the return filed with the Internal Revenue Service." Financial statements must be prepared consistent with generally accepted accounting principles and include a balance sheet, income statement, cash flow statement, notes to the financial statement, and an accountant's opinion letter.

      ii. Quarterly financial statement

         This portion of the requirement calls for a complete copy of the most current quarterly financial statement prepared consistent with generally accepted accounting principles. Internally prepared statements are satisfactory.

      iii. Supplementary information statement

         This portion of the requirement calls for a written statement detailing the information that would normally be found in SEC's Form 10-K including descriptions of the business and its operations; identification of any affiliated relationships; credit agreements and terms; any legal proceedings involving the applicant; contingent liabilities; and significant accounting policies.

iv. Construction capital cost estimates

This portion of the requirement calls for estimates of capital costs for expansion and/or initial construction if the application encompasses facility expansion, capacity expansion, or new construction.

v. Explanation statement

This portion of the requirement calls for a statement signed by an authorized signatory [as described in 30 TAC 305.44(a)] explaining in detail how the applicant demonstrates sufficient financial resources to construct, safely operate, properly close, perform post-closure care, perform corrective action and provide adequate liability coverage for the facility. This statement must also address how the closure, post-closure, corrective action, and liability coverage financial assurance requirements of Chapter 37, Subchapter P will be met (i.e., which financial assurance mechanism is or will be used).

c. Entities without Audited Financial Statements or Entities Choosing Not to Provide the Information Listed Above

i. Financial Plan

This portion of the requirement calls for a financial plan (including balance sheets listing assets, liabilities and capital accounts) sufficiently detailed to clearly demonstrate that the applicant will be in a position to readily secure financing for construction, operation, and closure, post-closure, and corrective action if the permit is issued. At least 3 balance sheets should be included as of: a) approximately the date of the permit application, b) 12 months after any construction is completed (or assumption of operational control for a permit transfer), and c) 24 months after any construction is completed (or assumption of operational control for a permit transfer).

ii. Letters of opinion

The submitted financial plan must be accompanied by original letters of opinion from two financial experts, not otherwise employed by the applicant, who have the demonstrated ability to either finance the facility or place the required financing. If the permit action sought involves construction of a new facility or expansion of an existing facility, the opinion letters must certify that financing is obtainable within 180 days of permit approval and include the time schedule contingent upon permit finality for securing the financing as well as certify the financial plan is reasonable. Even if the application does not involve a facility or capacity expansion, the opinion letters must certify that the financial plan is reasonable. Only one opinion letter from a financial expert, not otherwise employed by the applicant, is required if the letter renders a firm commitment to provide all the necessary financing.

Letters of opinion are usually issued by investment or commercial bankers but there could be additional sources. Applicants are encouraged to verify the adequacy of the credentials of their chosen financial expert with TCEQ's financial assurance unit prior to a formal engagement. Financial experts should describe their qualifications and disclose their independence from the applicant and/or any entity or person affiliated with the applicant.

iii. Operating and cash flow statement

This portion of the requirement calls for a written detail of the annual operating costs of the facility and a projected cash flow statement including the period of construction and first two years of operation. The cash flow statement must demonstrate the financial resources to meet operating costs, debt service, and provide financial assurance for closure, post-closure care, and liability coverage requirements. A list of the assumptions made to forecast cash flow must also be provided.

iv. Explanation statement

This portion of the requirement calls for a statement addressing how the closure, post-closure, corrective action, and liability coverage financial assurance requirements of Chapter 37, Subchapter P will be met (i.e., which financial assurance mechanism is or will be used).

v. Construction capital cost estimates

This portion of the requirement calls for estimates of capital costs for expansion and/or initial construction if the application encompasses facility expansion, capacity expansion, or new construction.

d. Entities with A Resolution from A Governing Body Approving or Agreeing to Approve the Issuance of Bonds to Satisfy Financial Assurance Requirements (e.g., a City or County)

i. Explanation statement

This portion of the requirement calls for a statement signed by an authorized signatory [as described in 30 TAC30 305.44(a)] explaining in detail how the applicant demonstrates sufficient financial resources to construct, safely operate, properly close, perform post-closure, perform corrective action and provide adequate liability coverage for the facility. This statement must also address how the closure, post-closure, corrective action, and liability coverage financial assurance requirements of Chapter 37, Subchapter P will be met (i.e., which financial assurance mechanism is or will be used).

ii. Certified copy of the resolution from the governing body

iii. Certification by the governing body of passage of the resolution

2. Permit Renewals

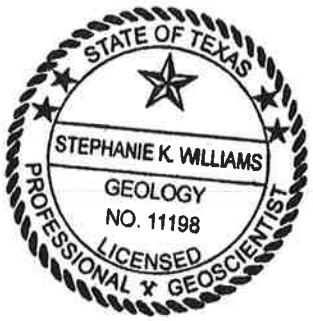
For all types of applicant entities, include a financial disclosure letter addressed to UIC Permits Section signed by an applicant representative meeting the application signatory requirements of 30 TAC §305.44 stating the following information:

> "This letter is furnished to you in response to financial disclosure requirements as applicable under Texas Health and Safety Code Section 361.085 and Title 30, Texas Administrative Code (30 TAC), Section 305.50 to provide assurance that [name of applicant] has sufficient financial resources.
>
> In keeping with the above law and rule requirements I hereby certify that [name of applicant] is adequately capitalized and has sufficient financial resources to operate, close, provide post-closure care for and perform corrective action for the above-referenced facility in a safe manner, and in compliance with the permit and all applicable rules.
>
> [name of applicant] currently provides a [describe type of mechanism, i.e., letter of credit, surety bond, etc.] financial assurance mechanism as set out in 30 TAC, Chapter 37, Subchapter C to meet [name of applicant]'s financial assurance obligations.
>
> I am authorized to make these statements on behalf of [name of applicant]. I understand that the TCEQ may request additional information as part of their review."

Geoscientist Seal

Signature by Texas Professional Geoscientist

I, Stephanie K. Williams, the undersigned state: As an employee of Terra Dynamics Incorporated that I am authorized to prepare this document (***V. Geology Report***) and that this document (***V. Geology Report***) was prepared under my supervision and direction. All facts stated herein are true, correct and complete to the best of my knowledge. The geosciences information, calculations and analyses attested to in this document (***V. Geology Report***) were prepared in accordance with generally and currently accepted geosciences principles and practices. The information specifically covered by this seal includes Pages V-1 to V-24, Table V-1, Figures V-1 to V-21 and Plates V-1 to V-9 as they relate to the Permit Application to Dispose of Waste in a Class I Injection Well, Permit Renewal Application [WDW-447 and WDW-448] for the Uranium Energy Corp., Burke Hollow Facility, Bee County, Texas.



Signature

12/19/2024
Date

Licensed Professional Geoscientist
#11198, State of Texas
Terra Dynamics Incorporated
Texas Registered Engineering Firm
F-3501

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V. GEOLOGY REPORT

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V. GEOLOGY REPORT

The following sections present a summary of the regional and local stratigraphic and structural geology, lithology, hydrostratigraphy and hydrogeology within the Uranium Energy Corporation (UEC) geologic study area relative to proposed injection wells WDW-447 and WDW-448. Information obtained from the data, interpretations, and conclusions of the artificial penetrations review study, and from the drilling and completion of other Bee and Refugio Counties injection wells were used for the study of the geologic conditions at and surrounding the Burke Hollow Project site. Figure V-1 is a regional stratigraphic column showing the relationships and environments of deposition/lithology of the various formations.

V.A. Regional Geology and Hydrogeology

The UEC regional geologic study area covers portions of Bee and Refugio Counties in the southern portion of the Middle Texas Gulf Coast. The regional study area is circular with an approximate radius of 20 miles (Figure V-2). The center of the study area is approximately 16 miles southeast of Beeville, Texas. The Burke Hollow Project site is located about three miles northwest of the Bee-Refugio County line and about one-half to one mile northeast of the Aransas River (Figure V-2).

V.A.1 Regional Stratigraphy

Cenozoic sediments that underlie the Coastal Plain of Texas are tens of thousands of feet thick at the coastline (Baker, 1979). These clastic sediments of sand, silt, and clay represent depositional environments ranging from fluvial at the outcrop of most units, to marine in the downdip section where the units may carry a distinctive suite of fossils. Changes in sea level affected the sedimentation source, rate, and depocenter location. These sea level changes are represented in the rock record as facies changes along both strike and dip. Compaction of the marine sediments and subsidence of the depositional basin resulted in thicker accumulation of sediments Gulfward in the same stratigraphic unit.

The stratigraphic units of the Gulf Coast Basin crop out as relatively broad, coast-parallel bands (Figure V-3) and dip toward the Coast between 20-65 feet per mile (Myers and Dale, 1966). The relative geologic age of these regional surface geologic units becomes progressively younger toward the Gulf Coast. Generally, these bands delineate the coast-parallel depositional framework that has dominated much of the development of the Gulf Coast Basin. In addition, the relative width of these bands reflects the relative thickness of the stratigraphic units, with the broader outcrop

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bands corresponding to greater thickness. Recent alluvial deposits also occur along the courses of the stream channels.

Cyclic depositional units consisting of transgressive and regressive phases, characterize Gulf Coast Tertiary sedimentation. The primary stratigraphic units of interest within the UEC regional study area are the Oligocene Vicksburg and Catahoula Groups; the Miocene Fleming Formation/Lagarto Clay and Oakville Sandstone; the Pliocene Goliad Sand; and the Pleistocene Lissie Sand and Beaumont Clay, which crop out at the surface. (Refer to the stratigraphic-hydrologic correlation chart provided as Figure V-1.)

Oligocene Series

The Catahoula Group sediments overlie the Vicksburg Group, which occurs at a subsurface depth greater than approximately 5,400 feet in the regional study area. The Catahoula Group is referred as the Catahoula Tuff Formation where it outcrops at the surface, but has been divided into the Frio, Anahuac and Catahoula Tuff Formations in the subsurface (see Figure V-1). The Catahoula Tuff Formation crops out approximately 45 miles northwest of the Burke Hollow Project site in the northwestern corner of Bee County. At the outcrop, thickness of the formation ranges from approximately 200 to 1,000 feet and beds dip regionally gulfward at less than one degree and gradually thicken downdip to well over 9,000 feet (Bebout and others, 1975).

Frio Deposition and Het Sand

The Frio Formation is a major Tertiary progradational wedge of the Texas Gulf Coastal Plain. The sands of this formation were deposited as old barrier bars, comparable to present day Padre Island, and/or strandplains or as deltaic facies and fluvial system deposits (Figure V-4). The Frio Formation extends in a band up to 50 miles wide and in places more than 12,000 feet thick along the Texas Gulf Coast (Galloway and others, 1982). The broad regional areal extent and thickness allows injection of waste fluids into the Frio Formation without excessive pressure increases. The Frio Formation is 2,000 to 2,500 feet thick in the project area (Figure V-5). The top of the Frio Formation occurs in the approximate subsurface interval from approximately 2,800 to 3,500 feet beneath the regional study area (Figure V-6).

The thick Frio sands interfinger with marine shales and with thin discontinuous sands, which were deposited in pro-delta and shelf environments. The Burke Hollow site is located at the transition between the Choke Canyon/Flatonia Streamplain System and the Greta/Carancahua Barrier/Strandplain System (Figure V-4). This system represents the intersection of an area of reworked sands deposited along strike from the two adjacent prograding deltas and minor streams

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that flowed across the central coastal plain of the San Marcos Arch. Downdip, the lower and middle Frio depositional intervals of the Greta/Carancahua Barrier/Strandplain System are typically massive, blocky, stacked sands separated by thin irregular shaley beds and can expect to be laterally and vertically extensive. The shaley portion of the lower and middle Frio Formation lies beneath the Burke Hollow site (Figure V-4).

During the upper Frio major transgressive interval, the focus of framework sand distribution shifted landward, particularly in the Greta/Carancahua Barrier/Strandplain and Houston Delta Systems (Figure V-4), leaving a broad, transgressed, muddy shelf. Also, wholesale reworking of sand along the coastal barriers of the Norias Delta front fed prominent sand rich belts that extend northeastward and merge with aggradational beach and barrier facies of the Greta/Carancahua shore zone (Galloway, 1986). This shift in sand distribution may have produced the sand unit that contains the first occurrence of Heterostegina fauna.

The sand unit containing this paleogeologic marker is referred to as the “Het Sand” in these permit applications. The Het Sand straddles the upper portion of the Frio Formation and lower portion of the Anahuac (Figure V-3) and comprises the UEC Injection Zone and Injection Interval.

Anahuac Deposition

Immediately overlying the Frio Formation is the Anahuac Formation. The Anahuac is a regionally extensive marine transgressive and is one of the most discernible formations in the subsurface. The thick shale sequence of the Anahuac provides an effective impermeable barrier against any upward movement of waste fluids from the Frio Formation and serves as the Confining Zone for the UEC Injection Zone. The top of this marine shale formation occurs in the approximate subsurface interval from approximately 2,500 to 3,200 feet beneath the regional study area. The estimated lower 100 feet is included as the uppermost portion of the Injection Zone (Figure V-7). It extends a considerable distance downdip, and for a minimum of 30 to 40 miles updip. The unit is often divided into the Marginulina, Heterostegina and Discorbis, oldest to youngest, based upon the occurrence of these species. The Anahuac is very discernible regionally, being “sandwiched” between the distinctive Upper Frio Formation sand below and the Catahoula Tuff Formation above. The Anahuac is minimally 250 feet thick regionally.

Catahoula Tuff Deposition

The Catahoula Tuff Formation immediately overlies the Anahuac Formation. The top of the Catahoula Tuff occurs at approximately 2,200 to 2,900 feet beneath the regional study area. The Catahoula Tuff is exposed at the surface and has been surface mapped from east at the Sabine River

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to west at the Rio Grande River. The Catahoula Tuff outcrops northwest of the site in Bee County, approximately 50 to 60 miles distant (Figure V-6). At its outcrop, the Catahoula Tuff consists of poorly sorted fluvial-deltaic tuffaceous sands, with interbedded shales and clays and its thickness, as with the underlying units, increases downdip. Regionally, the Catahoula is approximately 200 to 450 feet thick and probably represents near-shore sands (barrier and beach).

Miocene Series

The Oakville Sandstone Formation overlies the Catahoula Tuff (Figure V-3). The Oakville Formation outcrops approximately 30 miles northwest of the Burke Hollow site in northwestern Bee County and consists primarily of terrigenous clastics and generally alternating clay (shale) and sand beds. The Oakville is a lithostratigraphic unit with well-defined boundaries regionally (Bee and adjacent counties) and is quite discernible on the geophysical logs, within the project area. Groundwater found in the sands of the Oakville is slightly saline to brackish beneath the regional study area and is called the Jasper Aquifer.

The Lagarto Clay Formation was deposited as a relatively thick continental shale and immediately overlies the Oakville Sandstone Formation. The top of the Lagarto occurs at a depth of approximately 600 to 1,600 feet in the regional study area. Many individual sand layers occur within the Lagarto Clay Formation (which contains fresh to moderately saline water in the study area) but because of its relatively large percentage of silt and clay as compared to the Oakville Sandstone Formation, the Lagarto acts as a confining unit. The Lagarto Clay Formation is equivalent to the hydrostratigraphic unit the Burkeville Confining System (Figure V-3).

Pliocene Series

The Goliad Sand Formation overlies the Fleming Formation/Lagarto Clay unconformably. The Goliad Sand is representative of a Pliocene-age fluvial depositional episode and is predominantly sand and sandstone interbedded with clay and gravel (Myers and Dale, 1966). These characteristics may be indicative of increased flow rates in the Pliocene fluvial system. The Goliad Sand crops out in central Bee County about ten miles northwest of the Burke Hollow site (Figures V-2 and V-8). At the outcrop, the formation dips gulfward at 60 feet per mile and is approximately 500 feet thick.

Quaternary System

Sediments, predominantly sands, of the Quaternary System, overlie the Goliad Sand. These shallow deposits consist of Fluviatile terrace deposits (Holocene Series) and Lissie Sand and Beaumont Clay Formations (Pleistocene Series) geologic units (Figures V-2, V-3 and V-8). Pleistocene strata that crop out on the Texas Coastal Plain consist principally of interbedded clay, silt, sand and gravel of

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fluvial deltaic origin. The Lissie Sand Formation above the Goliad Sand was deposited in a fluvial environment and contains gravel, sands and clays. The Lissie Sand Formation crops out at the surface in the southern one-third of Bee County, dips gulfward, and is approximately 300 feet thick below the Burke Hollow site.

The Beaumont Clay Formation overlies the Lissie Formation and is exposed at the surface in the southern and eastern portion of the regional study area where it extends to the coastline. The Beaumont Formation contains sands and clays deposited in fluvial, deltaic and marginal marine settings and in Refugio and San Patricio Counties are much more mud rich than the previously deposited Lissie Sand Formation. The Beaumont Formation has a maximum thickness of about 100 feet within Bee County (Myers and Dale, 1966).

V.A.2 Regional Hydrostratigraphy

The regional hydrogeologic framework consists primarily of three basic aquifers: Jasper, Evangeline and Chicot (Figure V-1). Two hydrological units, the Chicot and Evangeline Aquifers, constitute the principle sources of groundwater in Bee County. At the Burke Hollow Project site, the Chicot Aquifer occurs from the land surface to an approximate depth of 300 feet (Figure V-9). Underlying the Chicot Aquifer and extending to an approximate depth of 1,400 feet is the Evangeline Aquifer (Figure V-10). The Burkeville Confining System underlies the Evangeline Aquifer and extends to a depth of approximately 1,900 feet (Figure V-11), which is the top of the Jasper Aquifer. As shown on the regional hydrostratigraphic dip cross section (Figure V-11), these aquifers roughly represent the Catahoula Tuff-Oakville, the Goliad Sand, and the Pleistocene-Holocene Formations, respectively, along the Texas Gulf Coast (Baker, 1979). A few sands within the Lagarto Formation produce usable quality groundwater and are included in the Jasper Aquifer; however, much of the Lagarto Formation is equivalent to the Burkeville Confining System of the Texas Gulf Coast (Baker, 1979), and is not known to yield fresh water to wells in the regional study area.

Precipitation on the outcrop areas serves as the primary source of recharge to the aquifers. However, due to the low permeability of the Beaumont Clay Formation, areas that are overlain by this unit receive little or no direct recharge from the land surface. Only the Chicot and Evangeline Aquifers produce usable quality water (less than 3,000 milligrams per liter [mg/L] dissolved solids) within the regional study area. Groundwater in the Chicot and Evangeline Aquifers in the regional area moves from areas of recharge (northwest) toward the coast (southeast). Water level data collected in water supply wells in the local area support this conclusion. Figures V-9 and V-10 show the approximate base of the Chicot and Evangeline Aquifers, respectively.

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V.A.3 Confining and Injection Zone Definition and Description

The Confining Zone for the UEC injection wells consists of the upper Anahuac Formation and the Injection Zone is within the lower Anahuac and upper Frio Formations below the facility location.

*V.A.3.*a Confining Zone

The Confining Zone for the proposed injection wells is the uppermost 300 feet (approximate) of the Anahuac shale. The depth to the top of the Confining Zone below the Burke Hollow Project area is from approximately 2,700 to 2,800 feet below ground level (GL). The Anahuac is a wedge-shaped rock unit that occurs only in the subsurface and thickens towards the coast; is laterally continuous across the regional study area; and consists of shale with occasional thin beds of sandy shale, calcareous shale, and lime.

V.A.3.b Injection Zone

The Injection Zone for WDW-447 and WDW-448 comprises the entire sandy section of the lower Anahuac and upper Frio Formations. These formations consist of interbedded sands and shales that are approximately 850+ feet thick at the injection well sites. The proposed Injection Zone depths for the UEC wells are as follows:

WDW-447	2,940 to 3,900 feet GL
WDW-448	3,060 to 3,900 feet GL

The sand unit containing Heterostegina fauna (referred to as Het Sand throughout this technical report) of the lower Anahuac and upper Frio Formations comprise the Injection Intervals for each of the proposed injection wells. The Het Sand Injection Interval has a gross thickness of approximately 750 to 800 feet at the injection well sites. The proposed Injection Interval depths for the UEC wells are as follows:

WDW-447	3,070 to 3,900 feet GL
WDW-448	3,155 to 3,900 feet GL

V.A.4 Regional Cross Sections

A northwest to southeast regional structural Dip Section (Figure V-12) and a southwest to northeast regional structural Strike Section (Figure V-13) are included in this technical report. On these two published cross sections, strata from the Tertiary to the Pleistocene are illustrated. However, the strata above the Frio Formation have been lumped together as “Upper Oligocene - Pleistocene.” These cross sections show the regional stratigraphic and structural character of the UEC Injection Zone.

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V.A.5 Regional Structural Geology

Surface elevation across the regional study area is between sea level at the coastline and 250 feet above sea level in central Bee County. The topography is low-relief and dissected by southeastward flowing rivers and creeks.

Figure V-14 presents the major structural elements of the Gulf of Mexico Basin. The Burke Hollow Project site is located on the western side of the northwest-southeast trending San Marcos Arch between the Rio Grande Embayment and the Houston Embayment. The depth to the top of the Upper Tertiary is estimated to be about 15,000 feet in the central basin. This is in contrast to a depth of about 400 feet to the top of the Pliocene in the study area.

The subsurface geology of the region is illustrated in Figures V-12 and V-13. As shown on these figures, regional dip is to the east-southeast (gulfward) at about 120 feet per mile and major growth faults are essentially parallel to the bed strike and coastline. Faulting is normal and predominantly down-to-the-coast. The major fault zone of interest in this study is the Vicksburg Flexure. As these faults have generally developed contemporaneously with deposition, faulting has largely controlled the depositional patterns and sand bed geometry of mid-to-lower Frio. In general, sands of the Frio Formation thicken markedly into the downthrown sides of the faults. This applies to both major and lesser complementary or antithetic faults. Regional structural cross sections showing total thickness of the sedimentary column suggest that most fault displacement, if present under the regional study area, died out during deposition of the Miocene-Upper Oligocene facies. Some southwesterly trending faults of the region have probably been active to modern time. Evidence includes interpretations of linear trends visible on the surface (Figure V-8); however, no earthquake data has been recorded for the region (see Section V.A.6).

The Vicksburg Flexure is the most notable down-to-the-coast fault system and extends from the Rio Grande River northward through Refugio County (Figure V-14). This flexure is roughly seven miles southeast of the proposed UEC injection wells. Major displacements vary from 1,500 feet at the Vicksburg Group depth to 1,000 feet at the top of the Frio Formation. The flexure appears to die out into numerous smaller faults in San Patricio and Bee Counties (Figure V-15). A section of a commercially available map showing the structural top of the Het-Marg Zone (lower Anahuac/upper Frio Formation) and any mapped faults within the regional area is included as Figure V-16.

There is evidence that fault trends through the region do not allow any significant vertical migration of fluids above the Catahoula Tuff. The Catahoula Tuff is approximately 900 feet below the deepest

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underground source of drinking water (USDW) across the region. Evidence for vertical closure includes the presence of trapped natural gas and oil in the Vicksburg Group. The Vicksburg Group and lower Frio Formations are productive hydrocarbon reservoirs where salt domes and other structural traps exist in the regional area. Hydrocarbons are not evident in the local USDW. If fault trends were active conduits for vertical fluid migration to local aquifers and sources of drinking water, buoyant hydrocarbons should be detected in USDW aquifers, which is not the case. Thus, there is no evidence for fluid communication by any natural path between the lower Anahuac and upper Frio Formations and the USDW in the local area.

V.A.6 Regional Seismic Activity

The central Texas Gulf Coast is an area of minimal seismic activity, based on observational data obtained from the National Earthquake Information Center (NEIC) of the United States Geological Survey (USGS, 2024) and from seismic hazards mapping of the USGS (2024). Figure V-17 (National Seismic Hazard Map) projects peak ground acceleration in the United States for 50 years in the future with a 2 percent probability that the mapped values will be exceeded. As shown in Figure V-17, peak ground acceleration at the Burke Hollow Project location is minimal. This is due, in part, to the low level of tectonic activity occurring within the regional study area. An internet computer search for recorded seismic events between 1900 and 2024 and within a 50-kilometer (31-mile) radius of the Burke Hollow Project location confirms that there have been no recorded seismic events (Table V-1).

Based on: (1) a 114-year history of seismic activity (intensity and magnitude) within the area, (2) information regarding geologic structures (faulting) within the subject area, and (3) the lack of reports regarding damage associated with seismic activity in the area, seismic activity within the regional study area should have no impact on injection well activity at the Burke Hollow Project area. In addition, given the Injection Interval permeability and lateral continuity, injection at the UEC facility should not generate any noticeable seismic events.

V.A.7 Regional Groundwater Flow in the Injection Zone

Groundwater in the Coastal Plain aquifers are considered to have two origins: meteoric waters - precipitation that enters the shallow aquifers by infiltration and formation waters - water trapped in sediments from the original depositional environments (Kreitler, 1979). These two types of waters coexist in the basin in the following three hydrologic regimes: 1) the uppermost permeable strata are continuously recharged by meteoric waters forming a freshwater regime, which may extend to a depth of several thousand feet below land surface, and where flow is directed downdip toward the basin center; 2) the underlying compacting strata expel original formation water or water at least

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several million years old from sediments forming a hydrostatic system, where waters from this essentially saline section can come in contact with the overlying meteoric sections to prevent excessive pressure buildup within the hydrostatic zone; and 3) further downdip, the underlying strata represent the over-pressured or geopressured zone where abnormally high fluid pressures exist due to restricted drainage conditions (Kreitler and Richter, 1986).

In 1987, C. W. Kreitler and M. S. Akhter conducted a geohydrologic characterization study of the Frio Formation to evaluate pressure regimes and their influence on the migration potential of formation fluids. The study utilized pressure data gathered from drillstem tests and bottomhole pressure measurements in onshore oil and gas wells along the Texas Gulf Coast. The data were used to construct potentiometric surfaces and residual potential surfaces and to assess the effects of depressurization caused by hydrocarbon production. Figure V-18 is a regional hydrologic head map, produced from this study, for the 4,000-6,000-foot zone of the Frio Formation from 1975 to 1985. The regional hydrologic head map suggests that the Frio Formation fluid movement is southeast toward the Gulf of Mexico.

V.B. Local Geology and Hydrogeology

This discussion addresses the local stratigraphic and structural geology, lithology, hydrostratigraphy, and hydrology pertinent to the proposed injection well sites. For the purposes of this application, the local geologic area of study is defined as the area within the 2.5-mile radius composite AOR. In the immediate study area, many wells produced oil and gas from the Vicksburg Group prior to being plugged and abandoned. Geophysical logs from some of these wells have been used for this local study. Structure maps of the Injection Interval, Injection Zone and Confining Zone show the local study area, wells (logs) used for geologic interpretation and the locations of local cross section lines constructed for these permit applications (Plates V-1 and V-2). Table V-2 presents the well control used for detailed mapping of the AOR. A group of 48 wells in southeastern Bee and northwestern Refugio Counties, was used to estimate both gross thickness and depth to top of the Confining Zone, the Injection Zone, and the Injection Intervals through the AOR (see Table V-2). A general description and approximate interval thickness of the various geologic units of interest to this application follows.

V.B.1 Local Stratigraphy

Quarternary and Tertiary rocks outcrop over all of Bee County (Figure V-8). Regional dip of the Quarternary and Tertiary rocks is to the southeast at rates of about 20 to 65 feet per mile (Myers and Dale, 1966). The sediments of interest to the proposed project are the Oligocene Vicksburg and Catahoula Groups, the Miocene Fleming/Lagarto and Oakville Sandstone Formations, the Pliocene

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Goliad Sand Formation and Pleistocene Lissie Sand Formation which crops out at the surface in the AOR.

Oligocene Series

The Oligocene section includes the Vicksburg and Catahoula Groups (see Figure V-3) and comprises the bulk of the subsurface units discussed in this report. The sediments that accumulated in the Gulf Coast Basin during the Tertiary consist of interbedded sands and shales. The sands tend to be wedges that thin and fine basinward with the shales being wedge shaped as well and thinning toward shore. The sands are of three types; 1) deltaic sands that coarsen upward and fine basinward, 2) lenticular longshore bar sands, and 3) fluvial sands that fine upward. The most complete stratigraphic section can be observed from geophysical logs at location #64 (Plate V-1) and location #72 (Plate V-2).

Vicksburg Group

The Vicksburg Group underlies the Catahoula Group unconformably. The Vicksburg Group consists predominantly of interbedded marine shales and sands. As a whole, the unit consists of shale laid down in a transgressive sea in Oligocene time. The Vicksburg Group is encountered at a depth of ±5,500 feet below the UEC site.

Catahoula Group

The Catahoula Group consists of the Frio, Anahuac and Catahoula Tuff Formations. The Frio Formation represents a regressive phase overlain by and interfingering with the predominantly transgressive phase represented by Anahuac shale. The Catahoula Tuff immediately overlies the Anahuac. Both the Injection and Confining Zones are contained within the Catahoula Group.

Frio Formation

The Frio Formation is encountered at a depth of ±3,000 feet below the Burke Hollow Project site and has a gross thickness of about 2,000 feet (see cross section Plates V-1 and V-2). Both of the proposed UEC injection wells will be completed in the upper portion of the Frio Formation (the Het Sand).

The lower and middle Frio depositional intervals within the local study area are represented by shaley beds that are laterally and vertically extensive (Plates V-1 and V-2). In contrast to these depositional intervals, the upper Frio interval became increasingly affected by a regional shift to landward sand distribution and a reworking of sand along the coastal barriers of the Greta/Carancahua shore zone (Figure V-4). Thus, the upper Frio Formation within the local study

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area is represented by the sand unit that contains the first occurrence of Heterostegina fauna and is called the Het Sand in these permit applications.

Het Sand (Injection Zone and Injection Interval)

The Het Sand straddles the upper portion of the Frio and lower portion of the Anahuac (Figure V-3) and comprises the UEC Injection Zone and Injection Interval. The local thickness of the Injection Interval is shown on Plate V-4. The sands of the Het Sand Injection Interval are approximately 700 feet thick below the Burke Hollow Project site and are laterally extensive throughout the local study area. The combined local thickness of the Injection Zone is shown on Plate V-6. The thickness ranges from 386 feet at the Hamman Chato Bauer #1 (No. 26) well to 765 feet thick at the Exxon L.D. Thomson #22 (No. 99) well (Table V-2). The thickness trend shown on Plate V-6 also indicates that the Injection Zone, as represented by the sands of the upper Frio and lower Anahuac Formations, is laterally extensive throughout the local study area.

Sands and shales of the Injection Zone are uncemented and friable, or only weakly cemented; shales are moist, plastic, and unconsolidated. It is highly unlikely that any fault in the AOR is capable of transmitting fluid in a vertical direction at a higher rate than in shales. In addition, shale to shale contact is typically maintained across any fault above the Injection Interval in the confining shales, and due to the plastic, unconsolidated nature of the shale, the faults are unlikely to be vertically transmissive. Evidence of the absence of vertical transmissivity along a fault plane is associated with the existence of the Laura Thomson and Burkes Ridge East Oil Fields (see Figure V-16). These oil and gas fields produced from sands in the Vicksburg Group. If the fault were vertically transmissive, the hydrocarbons present in these fields would likely have leaked off into higher strata.

Anahuac Formation (Confining Zone)

The Anahuac Formation, an essentially impermeable bed of considerable area extent, is found above and interfingering with the underlying Frio Formation. The Anahuac occurs at a depth of approximately 2,500 to 3,000 feet below the Burke Hollow Project site (Plate V-7) and is approximately 300 feet thick. The upper shale portion of the Anahuac has been designated as the Confining Zone for the UEC injection wells. Plate V-8 shows the thickness of the Confining Zone. The thick shale sequence of the Anahuac is important in that it provides an effective impermeable barrier against any upward movement of waste fluids from the Het Sand.

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Catahoula Tuff Deposition

The sandy sediments of the Catahoula Tuff and Oakville Formations above the Anahuac are frequently referred to as the Miocene sands. The Catahoula Tuff occurs directly above the Anahuac at approximately 2,300 to 2,700 feet beneath the Burke Hollow study area (Plates V-1 and V-2). It consists of poorly-sorted fluvial-deltaic tuffaceous sands, with interbedded shales and clays.

Miocene Series

The Miocene Series is composed of the Oakville Sandstone and Lagarto Clay Formations (Figure V-3). The Oakville overlies the Catahoula Group (Catahoula Tuff, Frio and Anahuac Formations) and occurs at a depth of approximately 2,200 feet below the Burke Hollow Project site and is approximately 300 feet thick in the local study area. The Oakville consists primarily of terrigenous clastics, with generally alternating clay and sand strata. The Lagarto occurs to a depth of approximately 900 feet below the Burke Hollow Project site. The Lagarto is approximately 1,300 feet thick in the local study area (Plates V-1 and V-2). The Lagarto was deposited as relatively thick continental shale, and immediately overlies the Oakville Sandstone Formation.

Pliocene Series

All of the strata below the ground surface and above the Lagarto are composed of sand, silt, clay, gravel, and shale. The Goliad Sand Formation overlies the Lagarto Clay Formation unconformably. The Goliad Sand is representative of a Pliocene-age fluvial depositional episode and is predominantly sand and sandstone interbedded with clay and gravel (Myers and Dale, 1966). These characteristics may be indicative of increased flow rates in the Pliocene fluvial system. Beneath the Burke Hollow Project site, the Goliad Sand first occurs at a depth of approximately 400 feet (Plates V-1 and V-2). The base of the Goliad Sand occurs at approximately 900 feet below the Burke Hollow site and is approximately 1,875 feet above the top of the UEC Confining Zone

Pleistocene Series

The Pleistocene Lissie Sand Formation overlies the Goliad Sand and is composed of thick beds of sand and lenses of gravel interbedded with clay and silt (Myers and Dale, 1966). The Lissie occurs at the surface within the local study area (Figure V-8) and is approximately 300 feet thick beneath the Burke Hollow Project site (Figure V-9). The Lissie Sand and Goliad Sand Formations are shown as undifferentiated on Plates V-1 and V-2, because many of the well logs do not extend to the land surface.

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V.B.2 Local Hydrostratigraphy

Near the project area in Bee County, groundwater of acceptable quality is found in usable quantities in wells completed in the Quarternary Lissie Formation, and Tertiary Goliad and Lagarto Formations (Chicot and Evangeline Aquifers and Burkeville Confining System). The stratigraphic sequence of these water-bearing zones are shown in Figures V-3 and V-11. The Lissie Formation (Chicot Aquifer) yields small to large amounts of fresh to slightly saline water to municipal, industrial and irrigation wells in the area(Myers and Dale, 1966). The Goliad Sand (Evangeline Aquifer) is considered a major aquifer in the Texas Gulf Coast and produces moderate to large quantities of usable quality groundwater (less than 3,000 mg/L TDS) within the project area (Myers and Dale, 1966). The Lagarto Formation (Burkeville Confining System) yields small to large amounts of fresh to slightly saline water in Bee County (Myers and Dale, 1966), but is not known to produce usable quality groundwater within the local study area. Precipitation and stream-flow on the outcrop areas serve as the primary source of recharge to these aquifers.

Within the UEC 2.5-mile AOR, the base of the lowermost USDW, defined as having less than 10,000 milligrams per liter (mg/L) TDS is encountered within the Lagarto Formation at a depth of approximately 1,600 feet below the Burke Hollow Project site (Figure V-7; Plates V-1 and V-2), and is inferred to be the base of the lowermost USDW.

An inventory of water wells within 2.5 miles of the WDW-447 and WDW-448 well locations was performed based on existing Texas Water Development Board records (see Table VIII-2). Twenty three wells were identified within the composite AOR surrounding the proposed UEC well locations. Three were drilled for domestic purposes, seven were drilled for livestock watering, four were drilled as an oil test (not water supply) and nine were drilled as rig supply or industrial wells. All of these wells are completed in the Chicot and/or the Evangeline Aquifers at depths ranging to 440 feet GL, with the exception of the two oil test wells which were drilled greater than 5,000 feet. The locations of the wells are shown on Plate VIII-2.

A potentiometric surface map of the surface aquifers in Bee County, is included as Figure V-19. This map from Myers and Dale (1966), shows that the altitude of water levels measured in the shallow aquifers in 1963 and 1964 were at a depth of approximately 30 feet below mean sea level (MSL) in the Burke Hollow Project area and direction of flow was toward the southeast.

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V.B.3 Local Lithology and Rock Properties

The approximate depths to the various zones of interest for these permit applications include the following:

Depth to:	WDW-447*	WDW-448*
Base of USDW	1,600′	1,600′
Top of Confining Zone	2,700′	2,800′
Top of Injection Zone	2,940′	3,060′
Top of Het Sand Injection Interval	3,070′	3,155′
Base of Het Sand Injection Interval	3,900′	3,900′
Base of Injection Zone	3,900′	3,900′

* Note : estimated depths are relative to ground level.

V.B.3a Base of USDW

For the purposes of these permit applications, a USDW was defined as an aquifer in the UEC area which: 1) contained sufficient quantities of groundwater to supply a public water system; and, 2) contained fewer than 10,000 mg/L TDS. It is difficult to map the base of the USDW because: 1) surface casings for oil and gas wells are typically set to a sufficient depth to protect groundwater supplies containing groundwater having less than 10,000 mg/L TDS; 2) all local groundwater supply wells are completed into much shallower and much fresher horizons; and, 3) it is typical that wells drilled in the Texas Gulf Coast are not logged across shallow horizons (within the UEC area, most wells are logged from total depth to about 500 feet to 1,500 feet KB). However, it was possible to develop a cross section which portrays the base of the USDW using electric logs from wells which were logged above the zone where water salinity approached 10,000 mg/L.

The primary source of groundwater within the regional area, including the UEC AOR are the Chicot and Evangeline Aquifers. However, as discussed in Section V.A.2, the base of the lowermost USDW is considered to occur within the Lagarto Formation (Burkeville Confining System). Therefore, the vertical interval that contains a potentially usable quality of groundwater incorporates three stratigraphic units: undifferentiated Lissie Sand and Goliad Sand Formations and Lagarto Clay Formation (Figure V-3). The local groundwater system will be isolated from deep injection activities at the UEC site by the Confining Zone and the injection well completion methods (Section VI).

Based on geophysical log response (see Figure V-7) and limited chemical analyses from water wells, the Lissie Sand, Goliad Sand and Lagarto Clay Formations contain relatively fresh (less than 3,000 mg/L TDS) to moderately saline (3,000-10,000 mg/L TDS) water. No area water wells are known to produce water of usable quality from formations below the Lagarto Formation. Therefore,

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the base of the USDW is determined to be within the Lagarto Formation and is expected to occur at approximately 1,600 feet GL in WDW-447 and WDW-448. As such, the injection wells will inject into a formation that is beneath the lowermost formation containing (within at least 1/4-mile of the wellbore) a USDW or fresh water aquifer.

The Dip-Oriented Structural Cross Section A-A′, and Strike-Oriented Structural Cross Section B-B′ (Plates V-1 and V-2) show the configuration of the lowermost USDW across the 2.5-mile UEC local study area. Based on the available logs, the lowermost USDW horizon is shallowest at location #35 (1,490 feet KB) in the northwest and deepens to the 1,775 feet KB at location #91 east of the Burke Hollow Project site.

V.B.3b. Confining Zone

The Confining Zone for the proposed UEC injection wells consists of the upper shaley portion of the Anahuac Formation. The Confining Zone depths range from 2,700 to 2,940 feet GL at the WDW-447 well location, and from 2,800 to 3,060 feet GL at the WDW-448 well location; and is approximately 250 to 300 feet thick. The Confining Zone rock consists of marine shale deposits. A structure map of the top of the Confining Zone is included as Plate V-7. A gross thickness isopach map of the Confining Zone is included as Plate V-8.

The Confining Zone provides an additional layer of confinement strata between the Injection Zone and the base of the USDW. The stratigraphic sequence in the Confining Zone provides an adequate barrier to the upward migration of waste fluids. As shown in Plate V-7, the Confining Zone is laterally continuous and free of transecting faults or fractures over an area sufficient to prevent movement of constituents into the USDW and contains a formation with sufficient thickness and with lithologic and stress characteristics capable of preventing vertical propagation of fractures. In addition, the Confining Zone is separated from the base of the lowermost USDW by at least one sequence of permeable (Oakville Sandstone Formation) and less permeable strata (Catahoula Tuff) that will provide an added layer of protection for the USDW.

V.B.3c. Injection Zone

The Injection Zone for the proposed UEC injection wells includes the following formations: Lower Anahuac and Upper Frio Formations. The proposed Injection Zone depths are estimated at the depths between 2,940 to 3,900 feet GL in WDW-447, and 3,060 to 3,900 feet GL in WDW-448. A structure map of the top of the Injection Zone is included as Plate V-5. A gross thickness isopach map of the Injection Zone is included as Plate V-6.

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The Lower Anahuac and Upper Frio Formations, which serve as the Injection Zone, are approximately 900 feet thick across the composite AOR. These intervals are typically massive, blocky, stacked sands separated by thin irregular shaley beds that become more prevalent in the Lower Anahuac. The interbedded shales of the lower portion of the Anahuac inhibit vertical fluid movement.

V.B.3d. Injection Interval

The Het Sand will serve as the Injection Interval for the UEC injection wells. The permitted Injection Interval depths for WDW-447 are estimated from 3,070 to 3,900 feet GL, and for WDW-448 are estimated from 3,155 to 3,900 feet GL. A structure map of the top of the Injection Interval is included as Plate V-3. A gross thickness isopach map of this Injection Interval is included as Plate V-4.

The Het Sand Injection Interval consists of an interbedded sequence of massive, blocky, stacked sands separated by thin irregular shaley beds. The structure on top of the Het Sand Injection Interval dips from northwest to southeast (Plate V-3). As indicated on the structure map, the Injection Interval is laterally continuous, except for two partially transecting faults (one down-to-the-coast and one up-to-the-coast) located in the northwestern portion of the AOR and a fault that dies out in the southern portion of the AOR. The Injection Interval contains a formation with sufficient thickness and with lithologic and stress characteristics capable of preventing vertical propagation of fractures.

A variety of data was reviewed to determine the Injection Interval rock property values. The investigation included consideration of literature data, core data, and analysis of available transient pressure well tests conducted on other comparable injection wells in the Gulf Coast area.

Although no cores are available from the proposed Injection Interval in the vicinity of the Burke Hollow Project site, extensive information was gathered during the drilling of WDW-163 in 1983. WDW-163 was drilled by Sohio Chemical Company (now INEOS Nitriles) and is located approximately 45 miles along strike in Calhoun County, Texas. This data can be extrapolated to the Injection Interval strata in the vicinity of the UEC injection wells, as both intervals are within the upper Frio Formation.

During the drilling and completion of WDW-163, a total of 56 feet of whole core samples were obtained from the upper Frio Injection Interval from 5,340 to 5,618 feet KB using diamond coring equipment. The core data reports are included in Appendix B. Particle size analyses of sand samples taken from cores from depths of 5,345 feet, 5,375 feet and 5,612 feet were conducted. The sands were determined to be fine-grained, containing less than 10 percent medium sand, 66 to 75 percent

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fine sand, 5 to 10 percent very fine sand, and 10 to 20 percent silt or finer. Properties of rock types identified from WDW-163 across the cored interval are summarized in the following table:

WDW-163 Rock Properties

	Upper Frio
Core Depth For Lithology Specified	5,340′ – 5,618′
Core Air Permeability (horizontal) mD	770 – 7,217
Core Porosity %	30.3 – 42.5

No direct reservoir data is available pertaining to the upper Frio interval near the Burke Hollow Project site. A significant amount of study has been conducted on the properties of the Frio Formation in the Texas Gulf Coast. Galloway and others (1983) presented data from the Gretta 4400 Field, located in northwestern Refugio County, listing a Frio permeability as 687 mD and a Frio porosity as 33 percent.

V.B.3e. Confining Strata Beneath Injection Zone

The confining strata beneath the Injection Zone are comprised of shales and silts of the middle and lower Frio Formation. Consistent with the porosity and permeability of the overlying Confining Zone shales, it is anticipated that the porosity and permeability of the middle and lower Frio sediments are sufficient to contain any injected fluids which may migrate below the Injection Interval. The thickness of the lower confining strata beneath UEC injection wells is estimated to have a minimum thickness of 1,400 feet in the AOR.

V.B.3f. Uninterpreted Copy of Base Map

An uninterpreted copy of the base map used for mapping is included as Plate V-9.

V.B.4 Local Structural Cross Sections

Plates V-1 (Dip-Oriented Structural Cross Section A-A') and V-2 (Strike-Oriented Structural Cross Section B-B') illustrate the continuity of the Confining Zone, Injection Zone and Injection Interval within the area. The local cross section locations are shown on these plates, as well as on the local structure contour maps (Plates V-3, V-5 and V-7). The proposed injection well locations are identified on all structure and isopach maps and on the dip and strike oriented cross sections.

V.B.5 Structural Geology

This section discusses faults, fractures and any other surface lineations which are depicted on the three local structure contour maps (Plates V-3, V-5 and V-7) and two local geologic cross sections (Plates V-1 and V-2). Subsurface structural mapping based on correlations of electric logs from oil and gas boreholes indicates that the strike of the Catahoula Group (Anahuac and Frio Formations)

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in the local study area is north-northeast parallel to the current coastline and is similar to the trend of other Tertiary sediments along the middle and lower Texas Gulf Coast. Except for minor fluctuations and interruptions (down-to-the-coast and up-to-the-coast faulting), structural dip in the geologic study area is to the southeast at a rate averaging 200 feet per mile. The nearest faulting depicted which cuts the lower Anahuac/upper Frio is an up-to-the-coast fault located northwest of the proposed WDW-447 location. General thickening on down-thrown fault blocks is also evident. Another fault dies out approximately 2.4 miles south of the WDW-447 location, just on the southern edge of the AOR. Both of these faults correspond to faults shown on Figure V-16, which is a commercially drawn structure map.

Three structure contour maps on different horizons have been constructed and are included in this report. They are drawn on the top of the Injection Interval (Plate V-3), the top of the Injection Zone (Plate V-5) and the top of the Confining Zone (Plate V-7). These three maps show the configuration of the upper surfaces of the important horizons within the Area of Review, as related to the injection wells. Well logs of many of the wells used to construct these maps and cross sections are included in Appendix A.

At the Injection Interval depth, Plate V-3 shows the injection wells are located on the top and flank of a gently dipping ridge that is on the upthrown side of the up-to-the-coast fault that transects the UEC AOR on the northwest side. The fault at the level of the Injection Interval is approximately 4,500 feet northwest of the proposed WDW-447 well location and has a vertical displacement of approximately 100 feet; the down-to-the-coast fault is located approximately 5,800 feet northwest of the proposed WDW-447 location and has a vertical displacement of approximately 150 to 250 feet. This structure contour map shows depths relative to sea level of -2,700 to -3,500 feet to the top of the Injection Interval across the 2.5-mile AOR. The approximate top of the Injection Interval is at a depth of 3,155 feet GL at the proposed WDW-448 well location. A gross thickness isopach map of the Injection Interval is shown on Plate V-4. The gross thickness of the Injection Interval ranges from 400 feet to more than 700 feet thick across the 2.5-mile AOR.

The structure at the top of the Injection Zone (Plate V-5) consists of gently dipping, low relief four-way closure against an up-to-the-coast fault to the west. Plate V-5 shows the top of the Injection Zone (top of the Het Sand) to be between datums of approximately -2,600 feet and -3,300 feet across the AOR. The top of the Injection Zone is at a depth of approximately 3,060 feet GL, and a datum of -2,950 feet at the proposed WDW-448 well location.

The structure at the top of the Confining Zone, the shallowest of the mapped horizons, is shown on

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Plate V-7. This structure consists of a closure against the high side (east side) of the fault with the UEC injection wells being on the top and southeast flank of this structure. The map shows the top of the Confining Zone (Anahuac Formation) to lie between the depths of approximately -2,350 to -3,050 feet MSL across the 2.5-mile AOR. The top of this formation is at a depth of approximately 2,800 feet GL, and a datum of -2,685 feet at the proposed WDW-448 well location.

Gross interval thickness isopach maps of the Injection Zone and Confining Zone are shown in Plates V-6 and V-8, respectively. The gross thickness of the Injection Zone ranges from 530 to 900 feet across the AOR (Plate V-6), while the gross thickness of the Confining Zone ranges from less than 250 feet to more than 350 feet across the AOR (Plate V-8).

V.B.6 Delineation of Faults within the AOR

Faulting is present on the northwestern and southern side of the 2.5-mile composite AOR, northwest and south of the UEC well locations. Two northeast trending normal faults, one down thrown and one up thrown to the coast are present at the Het Sand level approximately 6,500 and 5,000 feet, respectively, northwest of the proposed WDW-447 location. The faults have a displacement of approximately 100 to 250 feet. The fault on the southern side of the AOR dies out just inside the 2.5-mile AOR and appears to have a maximum displacement of less than 20 feet within the AOR. Another fault that may be associated with this fault remains outside the AOR.

Horizontal Fault Transmissivity

Gulf Coast fault planes themselves do not typically act as lateral barriers to flow. The horizontal fluid transmissivity potential of the northwestern faults discussed above is dependent on whether the throw of the faults result in sands being juxtaposed against sands. Displacement along these faults is approximately 100 to 250 feet in the Injection Interval within the northwestern portion of the AOR; net thickness of the sand within the Injection Interval ranges from about 400 to more than 600 feet within the approximately 700-foot thick Injection Interval (see Plate V-1). These sands are scattered throughout the entire vertical thickness of the Injection Interval, with no horizon of any thickness totally void of sands. The offset of the fault of interest to this discussion does not appear to result in any significant Injection Interval sand juxtaposition against laterally sealing shale units, thus allowing minimally impeded horizontal flow to the Injection Interval sands across the fault.

Vertical Fault Transmissivity

The 100 to 250-foot faults discussed above are about the same as the thickness of the Confining Zone. At the Burke Hollow Project site, at least 250 feet of net shale exists in the Confining Zone, plus an additional 20+ feet of shale in the interval between the top of the Injection Zone and the top

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of the Injection Interval (Plate V-1). Because the shales at the UEC site are plastic and unconsolidated at the depth of interest, it is unlikely that coherent, transmissive fractures or fault planes exist. When two bodies of unconsolidated shale, or shale and sand, slide past each other along a fault, it is likely that the fault plane will become filled and sealed with plastic shale gouge. Jones and Haimson (1986) have noted that due to the very plastic nature of the Gulf Coast Region shales, faults tend to seal themselves, allowing no vertical fluid movement up the fault plane. The large thickness of shale strata above the Injection Interval, which provides extensive shale to shale contact along the fault plane, combined with possible shale smearing along the fault plane, should ensure adequate sealing to prevent vertical migration of formation and/or injected fluids along the fault plane.

V.B.7 Confining Zone Lateral Continuity

As discussed in the previous section, faulting is present on the northwestern side of the 2.5-mile composite AOR, northwest of the UEC well locations. However, the thickness of the Confining Zone is equal to or greater than the maximum throw of these faults eliminating the possibility that the Confining Zone seal can be circumvented by the faulting. The Confining Zone within the AOR, based on all mapping performed and literature researched, is laterally continuous and free of transecting, transmissive faults or fractures which could cause movement of fluids into a USDW or fresh water aquifer.

V.B.8 Confining Zone Lithologic and Stress Characteristics

The Confining Zone consists of the upper Anahuac Formation. The permitted top of the Confining Zone ranges from approximately 2,700 feet GL at the proposed WDW-447 location to 2,800 feet GL at the proposed WDW-448 well location. The Confining Zone is estimated to be approximately 250 to 360 feet thick. The Confining Zone is comprised of marine shale. As discussed in Section V.B.1, because of the shaley nature the upper Anahuac Formation, the Confining Zone is of sufficient thickness and possesses lithologic and stress characteristics capable of preventing vertical propagation of fractures.

V.B.9 Confining Zone-USDW Demonstration

The upper Anahuac Formation Confining Zone separates the base of the lowermost USDW by at least one sequence of permeable and less permeable strata, thus providing an added layer of protection for the USDW in the event of fluid movement.

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V.B.9.a Confining Zone – USDW Separation

The top of the Confining Zone (top of Anahuac Formation) is present at a subsurface depth of approximately 2,700 to 2,800 feet at the proposed well locations. The base of the lowermost USDW (sand unit within the Lagarto Clay Formation) at this location is at a depth of approximately 1,600 feet. A total of over 1,100 feet of alternating sand, silt and shale sequences separate these two horizons. Thus, the Confining Zone is separated from the base of the lowermost USDW by at least one sequence of permeable (Oakville Sandstone Formation) and less permeable strata (Catahoula Tuff Formation) that will provide an added layer of protection for the USDW in the event of fluid movement in an unlocated borehole or transmissive fault.

V.B.9.b Injection Zone-USDW Potentiometric Surface

Within the AOR, the potentiometric surface of the Injection Zone is less than the potentiometric surface of the lowermost USDW. A potentiometric surface map of the surface aquifers in Bee County is included as Figure V-20. This map from Myers and Dale (1966) demonstrates that the altitude of basal USDW water level in the aquifers is at a depth between -900 and 1,000 feet MSL in the Burke Hollow Project area. The potentiometric surface of the top of the Injection Zone is estimated between -750 and -1,000 feet as shown on Figure V-21.

V.B.9.c Presence of USDW

The Confining Zone has no present USDW. The geologic formations above the Confining Zone are composed of alternating sand and shale packages which reflect changes in sea level during deposition, as well as abandonment and re-establishment of various delta lobes within the Houston Embayment during deposition of the formations. Both the sand and shale sequences are laterally extensive across the AOR. These alternating sand and shale layers are well below the base of the USDW and provide added sequences of permeable and less permeable strata that offer an added layer of protection for the USDW in the event of fluid movement in an unlocated borehole or transmissive fault.

V.B.10 Seismic History

The seismic history of the area and the AOR are discussed in detail in Section V.A.6. Local potential for a seismic event due to injection is discussed in the following section.

V.B.10a Recorded Seismic Activity

The UEC study area is an area of minimal seismicity as shown by observational data obtained from the National Earthquake Information Center in Boulder Colorado. The UEC facility is located in one of the areas recognized as having the lowest level of seismic risk in the continental

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United States (Figure V-17). It is important to note that no seismic events have been recorded within the UEC AOR. Two database searches were performed on August 2, 2024 (USGS Earthquake Hazards Program online database search and TexNet-CISR Earthquake Catalog database search) to locate seismic events within an 80 kilometer (50 mile) radius of the UEC injection wells. The search for recorded seismic events indicated that no seismic events have been observed. This data is presented in Table V-2 (Seismic Event Data Within 80 Kilometers of the UEC Burke Hollow Facility). The Texas Gulf Coast has little potential for earthquake damage in part due to the relatively low level of tectonic activity occurring within the regional study area. Figure V-17 (National Seismic Hazard Map) projects peak ground acceleration in the United States for 50 years in the future with a two percent probability that the mapped values will be exceeded. As shown in Figure V-17, peak ground acceleration at the facility location is minimal, as the study area is rated with the lowest hazard.

Given the lack of any historical seismic activity within the 80 kilometer radius of the UEC facility and literature data which suggests that there is no potential for earthquake damage in the UEC study area, the risk for detrimental effects due to seismic activity in the UEC study area are extremely low.

V.B.10b. Injection Wells Authorized to Inject in the Injection Zone

UEC has two proposed injection wells (WDW-447 and WDW-448) permitted at the facility described within this permit renewal application. There are no other Class I injection wells permitted within the AOR.

There are four Class II injection wells within the Area of Review as described in Section VIII. Three of the UIC Class II wells are plugged salt water disposal wells. One additional Class II well (Map ID No. 75 Mueller Engineering Corp. Laura T. Barrow #31B) has been shut in since 2012.

V.B.10c. Pattern of Injection for Permitted Injection Wells

Neither WDW-447 nor WDW-448 have been drilled, therefore no injection has taken place into the wells.

There are four Class II injection wells within the Area of Review as described in Section VIII. Three of the UIC Class II wells are plugged salt water disposal wells (Map ID No. 28, 86 and 103) and have been plugged for decades as described in Table VIII-1.

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One additional Class II well (Map ID No. 75 Mueller Engineering Corp. Laura T. Barrow #31B) has been shut in since 2012. Prior to being shut in, Map ID No. 75 appears to have been operated intermittently. Injection volume data is available through the Railroad Commission from 2007 to present. Map ID No. 75 injected approximately 3,000 barrels of salt water per month from 2007 through early 2011, and averaged an injection rate of 3 gallons per minute. However, it injected approximately 100 barrels per month in 2011, before being shut in early 2012. Typically, salt water disposal wells are operated as needed.

V.B.10d. Thickness of Sediment Between the Base of Injection Zone and Basement Rocks

The Gulf of Mexico Basin was formed by the downfaulting of Paleozoic basement rocks during the break-up of the Paleozoic mega continent Pangaea and the opening of the North Atlantic Ocean in the Late Triassic (Chowdhury and Turco, 2006). Local structures in the Gulf of Mexico basin are primarily formed by gravity acting on thick sedimentary sections deposited on abnormally pressured shale or salt above the basement rocks (Chowdhury and Turco, 2006). Basement rocks in the Houston Embayment are presumed to be the Ouachita facies of Paleozoic age (Galloway and others, 1983). No wells in southern Texas have been identified to have been drilled deep enough to reach these Paleozoic rocks (Salvador and others, 1991). If present at the UEC facility location, the Ouachita facies are located on the order of 50,000 feet below ground level at the Burke Hollow facility location. The base of the Injection Zone is located between 2,940 to 3,900 feet below ground level, allowing a conservative ~46,000 feet of separation between the base of the Injection zone and the basement rocks at the injection well locations.

V.B.10e. Character of Sediment Between the Base of Injection Zone and Basement Rocks

Most of the wells within the geologic study area were drilled to the Frio Formation and therefore penetrate the upper Anahuac shale, which serves as the lower Confining Zone for proposed wells WDW-447 and WDW-448. Sediment between the base of the Injection Zone and top of the basement rocks is extensive and has multiple formations of sand and shale in the 30,000 to 46,000 feet of sediment between the Miocene age Anahuac shale and Paleozoic age Ouachita facies.

V.B.10f. Faults within the AOR

Fault transmissivity is discussed in Section V.B.6. The transmissivity of fluids across a fault must be considered with respect to both lateral (horizontal) and vertical components, requiring an assessment of the likelihood of a sealing surface (top seal and/or lateral seal) being present. Beneath the Burke Hollow Project site, there is ample shale present in the 30,000 to 46,000 feet

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of sediment between the base of the Injection Interval and the lower basement rocks across faulting due to the presence of juxtaposed shale-to-shale or sand-to-shale beds.

V.B.11 Surface Geology

The Burke Hollow Project site is located between the Aransas River and the Bee County line (Figure V-8). The property land surface dips toward the south and southeast and is crossed by two creeks (Burke Hollow and Moss Gully) that flow from northeast to southwest toward the Aransas River. Elevations within the project area range from about 80 to 165 feet above MSL.

The shallow deposits that crop out within the local area surrounding the UEC site consist of Quaternary Fluviatile terrace deposits (Holocene Series) and Lissie Sand Formation geologic units (Figure V-8). The terrace deposits, consisting of clay, silt, sand, gravel and caliche (Barnes, 1987) occur along the courses of the Aransas River and Blanco Creek. The Lissie Sand Formation occurs at the surface mostly in a broad belt trending approximately northeast-southwest across the southern portion of Bee County (Figure V-8). The Lissie Sand Formation is composed of thick beds of sand and lentils of gravel interbedded with clay and silt (Myers and Dale, 1966) and has a thickness of about 300 feet below the Burke Hollow location.

V.C. Well Logs

Separate copies of one-inch well logs from artificial penetrations within the regional study area, evaluated during the preparation of these permit applications, are included in Appendix A.

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TABLE V-1

SEISMIC ACTIVITY RECORDED WITHIN A 50-KM RADIUS

Uranium Energy Corporation
Bee County, Texas

U N I T E D S T A T E S G E O L O G I C A L S U R V E Y

E A R T H Q U A K E D A T A B A S E

FILE CREATED: August 2, 2024
Circle Search Earthquakes= 0
Circle Center Point Latitude: 27.279N Longitude: 97.507W
Radius: 50 km
Catalog Used: SRA, USHIS, PDE
Data Selection: Eastern, Central and Mountain States of U.S. (SRA), Significant U.S. Earthquakes (USHIS), and Historical & Preliminary Data (PDE)

CATALOG SOURCE	D A T E YEAR	MO DA	ORIGIN TIME	***COORDINATES** LAT	LONG	DEPTH km	pP STD DEV	*****M A G N I T U D E S**** mb	OBS Ms	OBS	F-E STA CONTRIBUTED VALUES	REG	****INFORMATION**** IEMFMDIPF NFAPOEDFL TFPS PEDG	PHENOMENA DTSVNWG	RADIAL DIST km

NO EARTHQUAKES RECORDED FOR THIS AREA BETWEEN 1900 and 2024.

Source: USGS, 2024.

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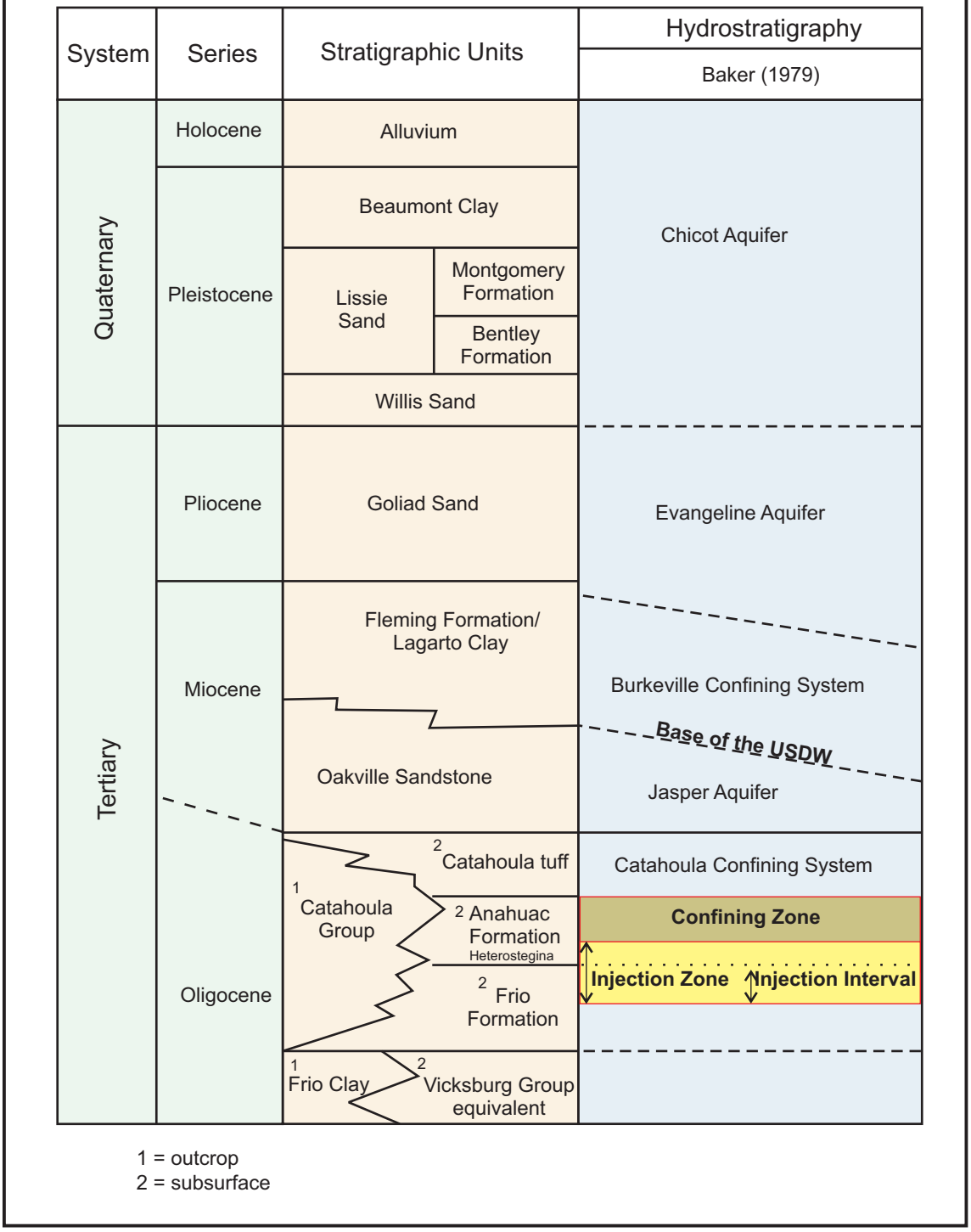

Modified from Chowdhury and Turco, 2006.

FIGURE V-1

STRATIGRAPHIC AND HYDROLOGIC UNITS OF THE TEXAS GULF COAST

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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Drawing No.: Figure V-1.cdr
Date: 8/5/2024
Job No.: 24-145

Drawn By: HKD
Designed By: PRG
Checked By: SKW

Drawing No.: Figure V-2.cdr
Date: 8/5/2024
Job No.: 24-145

Drawn By: H. Draper
Designed By: H. Draper
Checked By: S. Williams

★ Burke Hollow Project Location

0 mi 10 20 30 40

Base Map: Streets and Trips, 2004.

FIGURE V-2

REGIONAL STUDY AREA LOCATION MAP

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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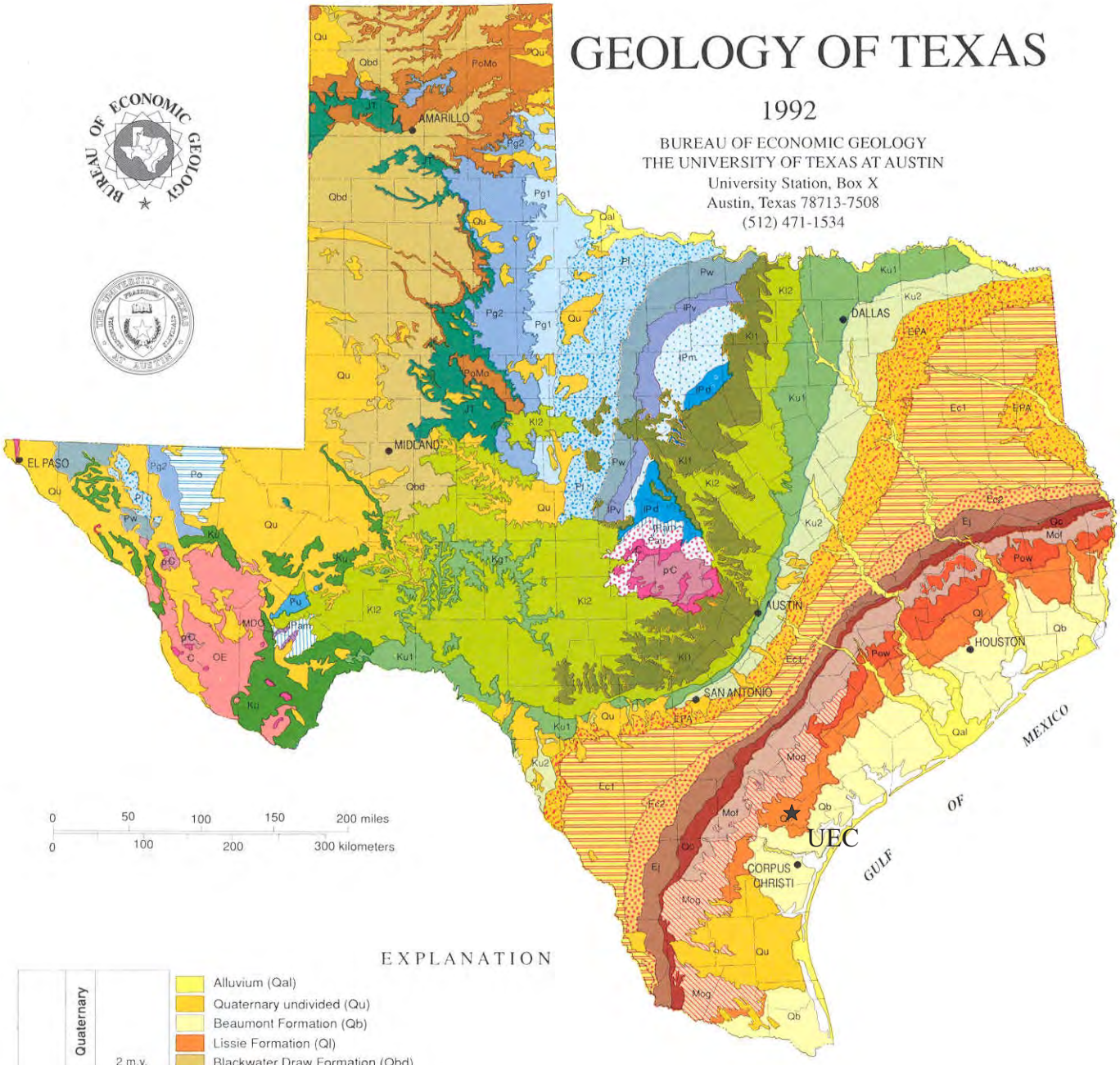
Drawing No.: Figure V-3.cdr
Date: 8/5/2024
Job No.: 24-145

Drawn By: BEG
Designed By: PRG
Checked By: SKW

GEOLOGY OF TEXAS

1992

BUREAU OF ECONOMIC GEOLOGY
THE UNIVERSITY OF TEXAS AT AUSTIN
University Station, Box X
Austin, Texas 78713-7508
(512) 471-1534



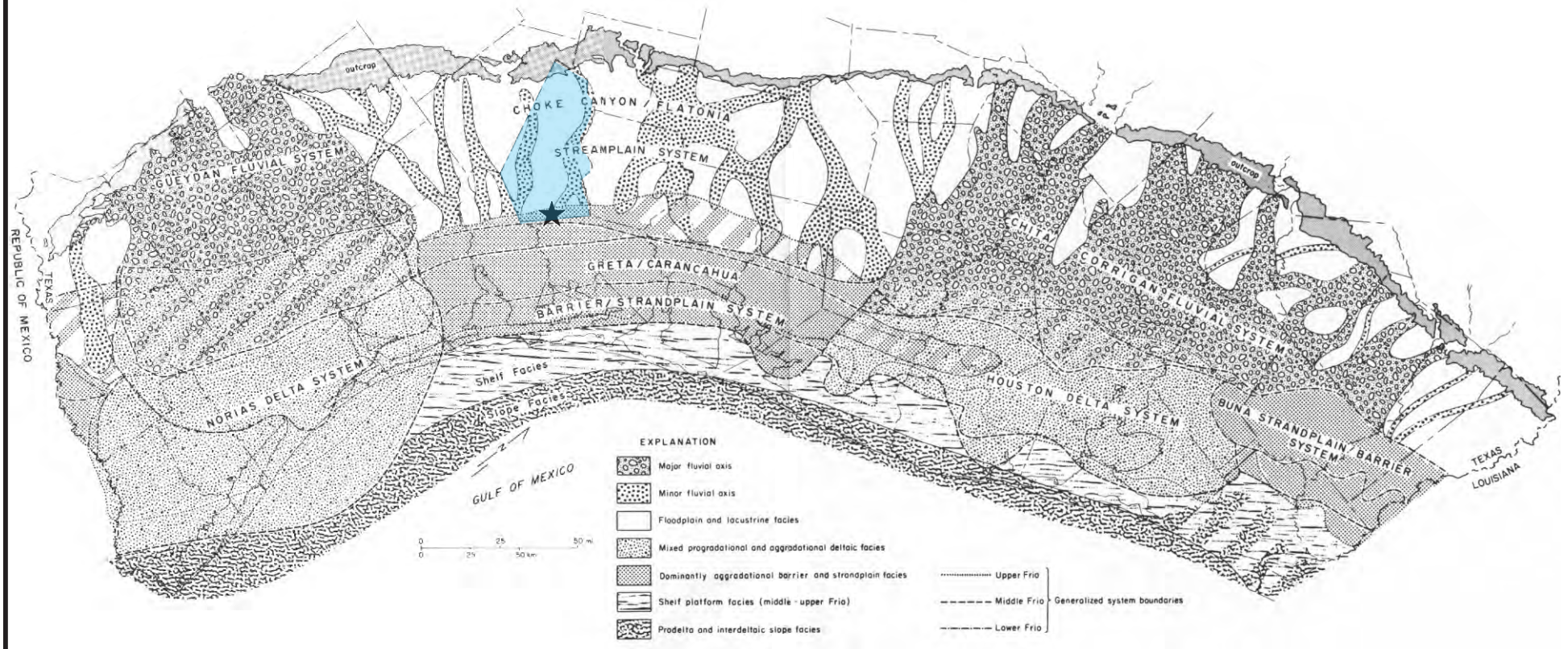
EXPLANATION

CENOZOIC	Quaternary	2 m.y.	Alluvium (Qal)
			Quaternary undivided (Qu)
			Beaumont Formation (Qb)
			Lissie Formation (Ql)
			Blackwater Draw Formation (Qbd)
	Tertiary	Pliocene 5 m.y.	Willis Formation (Pow)
			Ogallala Formation (PoMo)
		Miocene 24 m.y.	Goliad Formation (Mog)
			Fleming and Oakville Formations (Mof)
		Oligocene 38 m.y.	Catahoula Formation (Oc)
			Oligocene and Eocene undivided (OE) (volcanic rocks and conglomerates in Trans-Pecos Texas)
		Eocene 58 m.y.	Jackson Group (Whitsett, Manning, Wellborn, Caddell, Yazoo, and Moodys Branch Fms.) (Ej)
			Claiborne Group (Yegua Formation) (Ec2)
			Claiborne Group (Cook Mountain, Sparta, Weches, Queen City, and Reklaw) (Ec1)
		Paleocene 66 m.y.	Wilcox and Midway Groups (EPA)
MESOZOIC	Cretaceous		Navarro and Taylor Groups (Ku2)
			Austin, Eagle Ford, Woodbine, and U. Washita Groups (Ku1)
			Fredericksburg and L. Washita Groups (Kl2)
		144 m.y.	Trinity Group (Kl1)
			Cretaceous undivided (Ku)
	Jurassic Triassic 245 m.y		Jurassic Triassic undivided (JT)

PALEOZOIC		245 m.y.	Ochoan Series (Po)
			Guadalupian Series (Whitehorse and Quartermaster Formations) (Pg2)
			Guadalupian Series (Blaine and San Angelo Formations) (Pg1)
			Leonardian Series (Pl)
			Wolfcampian Series (Pw)
		286 m.y.	Permian undivided (Pu)
			Virgilian Series (IPv)
			Missourian Series (IP m)
		320 m.y.	Desmoinesian Series (IP d)
			Atokan and Morrowan Series (IP am)
		505 m.y.	Mississippian, Devonian, and Ordovician undivided (MDO)
			Cambrian (-C)
		570 m.y.	Paleozoic undivided (Pau)
Pre-cambrian		1200 m.y.	Precambrian undivided (p-C)
		2000 m.y.	

FIGURE V-3

Drawn By: HKD	Drawing No.: Figure V-4.cdr
Designed By: HKD	Date: 8/13/2024
Checked By: SKW	Job No.: 24-145



★ Burke Hollow Project Location

FIGURE V-4

INTERPRETATION OF FRIO DEPOSITIONAL ENVIRONMENTS

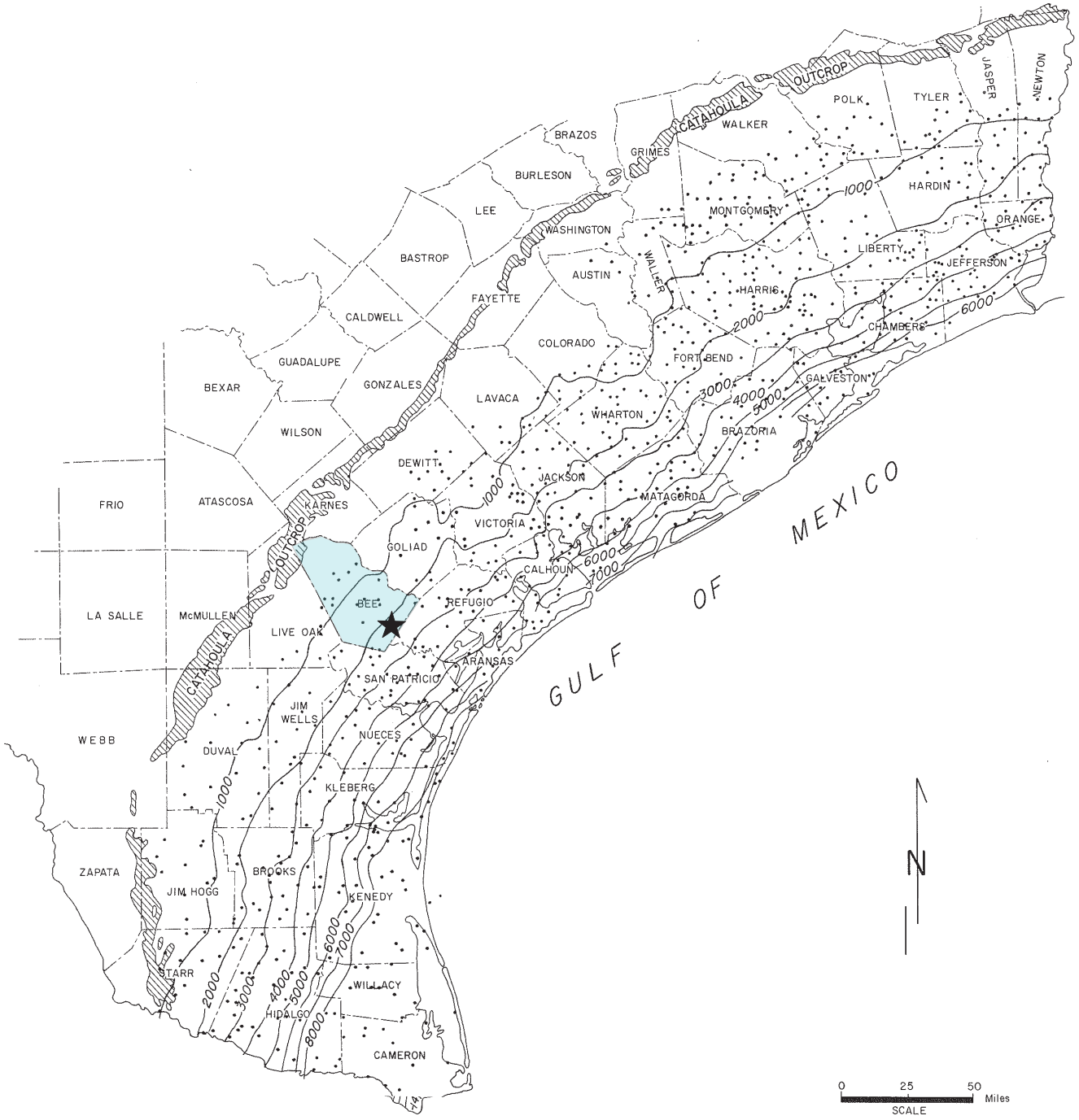
PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

TERRA DYNAMICS INC

© 2024

Source: Galloway and others, 1982.



★ Burke Hollow Project Site

Source: Bebout and others, 1978.

FIGURE V-5

REGIONAL ISOPACH MAP
FRIO FORMATION

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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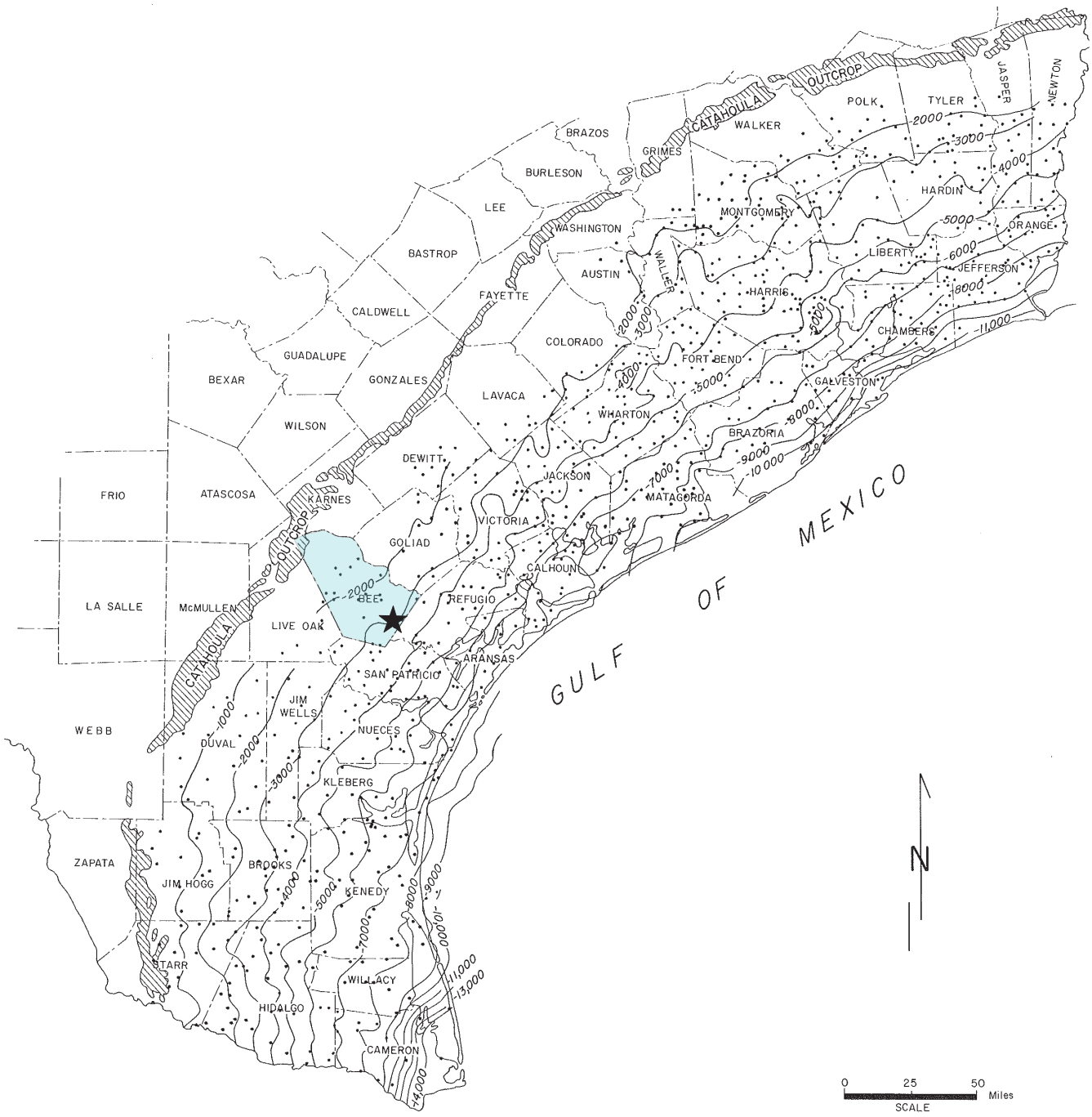
Drawing No.: Figure V-5.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: HKD
Checked By: SKW

Drawing No.: Figure V-6.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: HKD
Checked By: SKW



★ Burke Hollow Project Site

Source: Bebout and others, 1978.

FIGURE V-6

REGIONAL STRUCTURE MAP
TOP OF FRIO FORMATION

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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Drawn By: AEB	Drawing No.: Figure V-7.cdr
Designed By: AEB	Date: 8/13/2024
Checked By: SKW	Job No.: 24-145

MUELLER ENGINEERING #31-B LAURA T. BARROW
Halliburton Dual Induction Spectral Density Log
Log Date: July 25, 1989

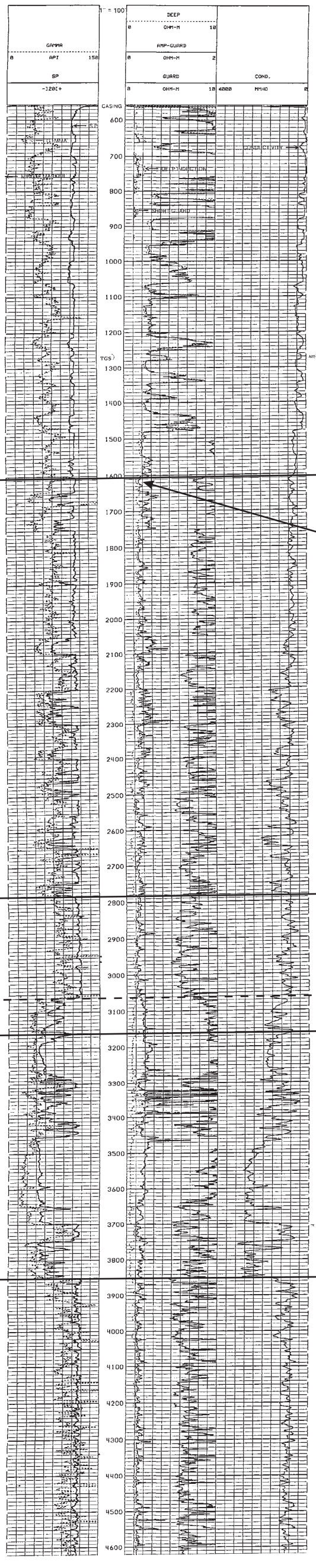

FIGURE V-7

PORTION OF LOCAL GEOPHYSICAL LOG SHOWING USDW AND ZONES OF INTEREST

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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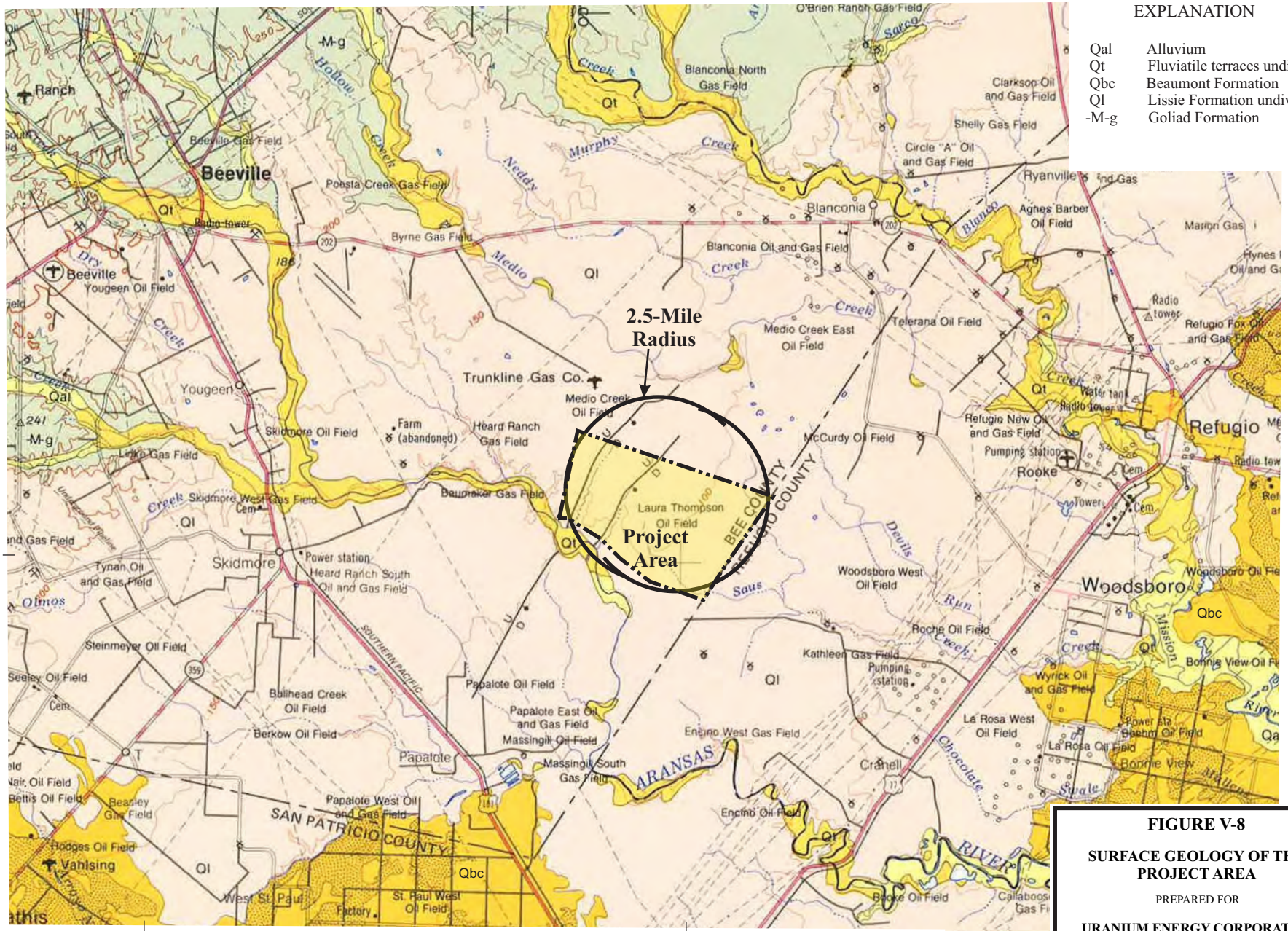
TERRA DYNAMICS INC

Drawn By: HKD	Drawing No.: Figure V-8.cdr
Designed By: HKD	Date: 8/13/2024
Checked By: SKW	Job No.: 24-145



EXPLANATION

Qal	Alluvium
Qt	Fluviatile terraces undivided
Qbc	Beaumont Formation
Ql	Lissie Formation undivided
-M-g	Goliad Formation

FIGURE V-8

SURFACE GEOLOGY OF THE PROJECT AREA

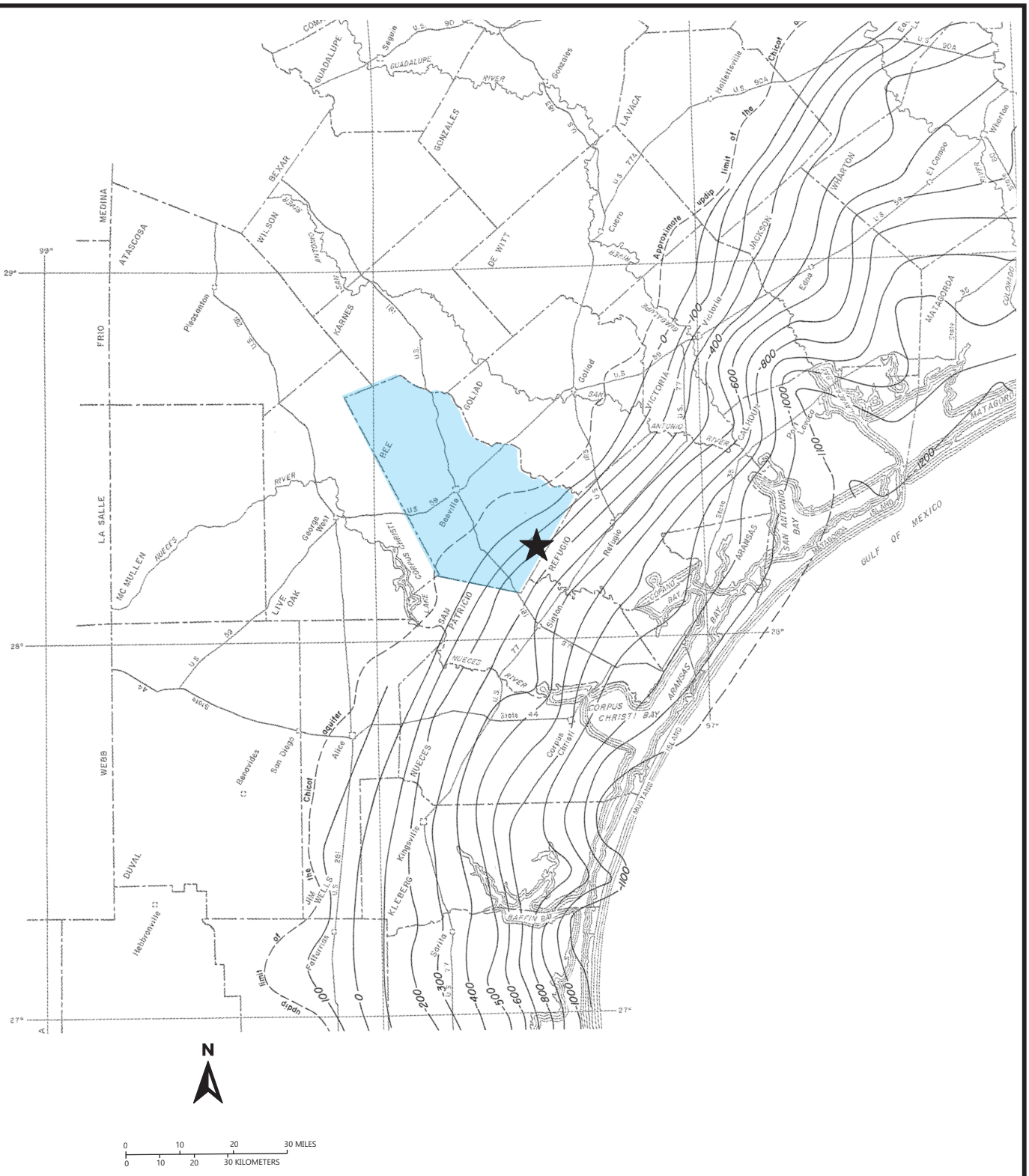
PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

© 2024

TERRA DYNAMICS INC

Source: Barnes, 1987.



Drawing No.: Figure V-9.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: HKD
Checked By: SKW

FIGURE V-9

APPROXIMATE BASE OF THE CHICOT AQUIFER

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URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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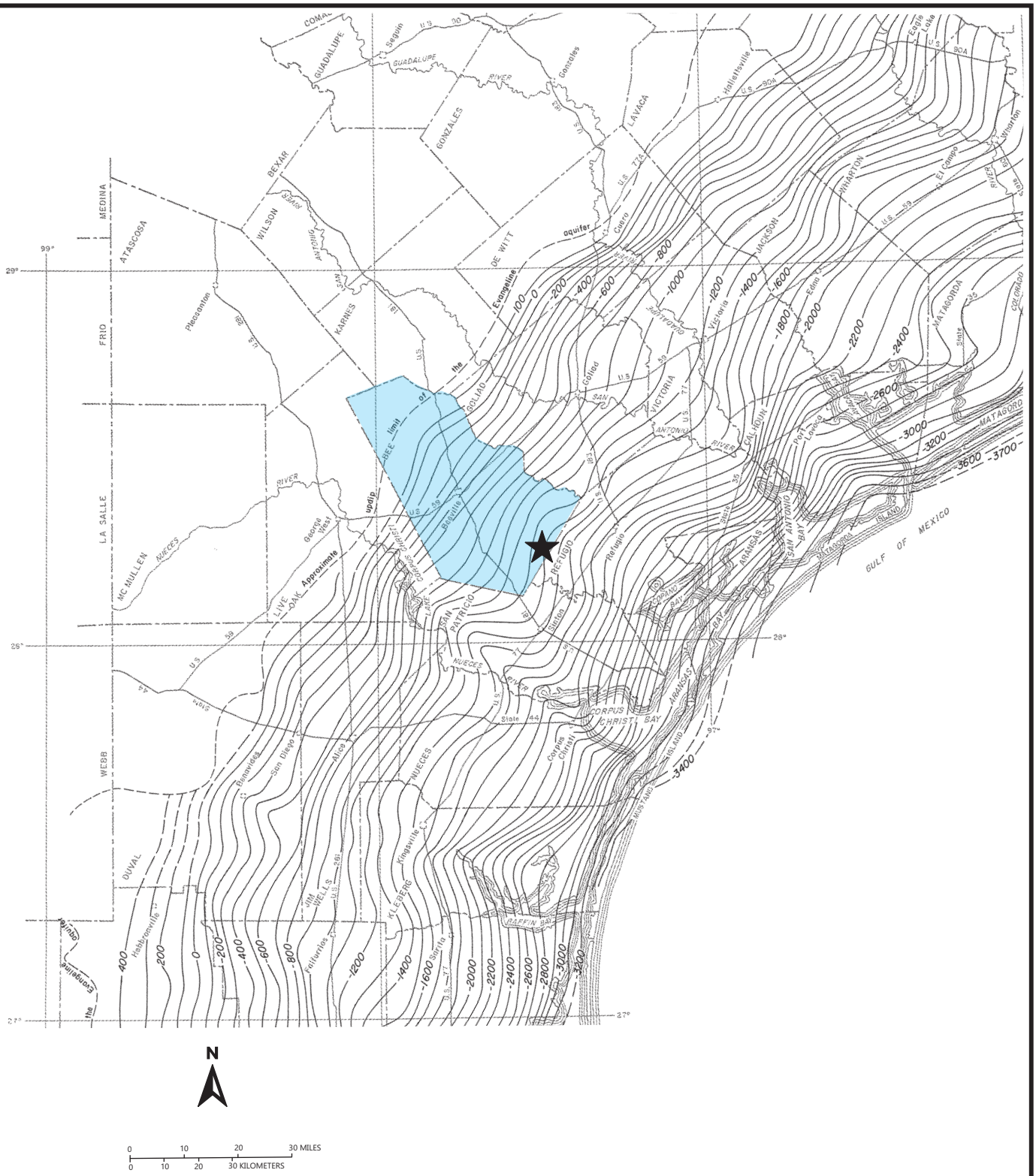

EXPLANATION

—— *-2000*—— STRUCTURE CONTOUR -- Shows altitude of base of Evangeline aquifer. Dashed where approximately located. Contour interval 100 feet (30.4 meters). National Geodetic Vertical Datum of 1929. Effect of salt domes on regional contours is not shown.

★ Location of Burke Hollow Project

Source: Carr and others, 1985.

FIGURE V-10

APPROXIMATE BASE OF THE EVANGELINE AQUIFER

PREPARED FOR

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BEE COUNTY, TEXAS

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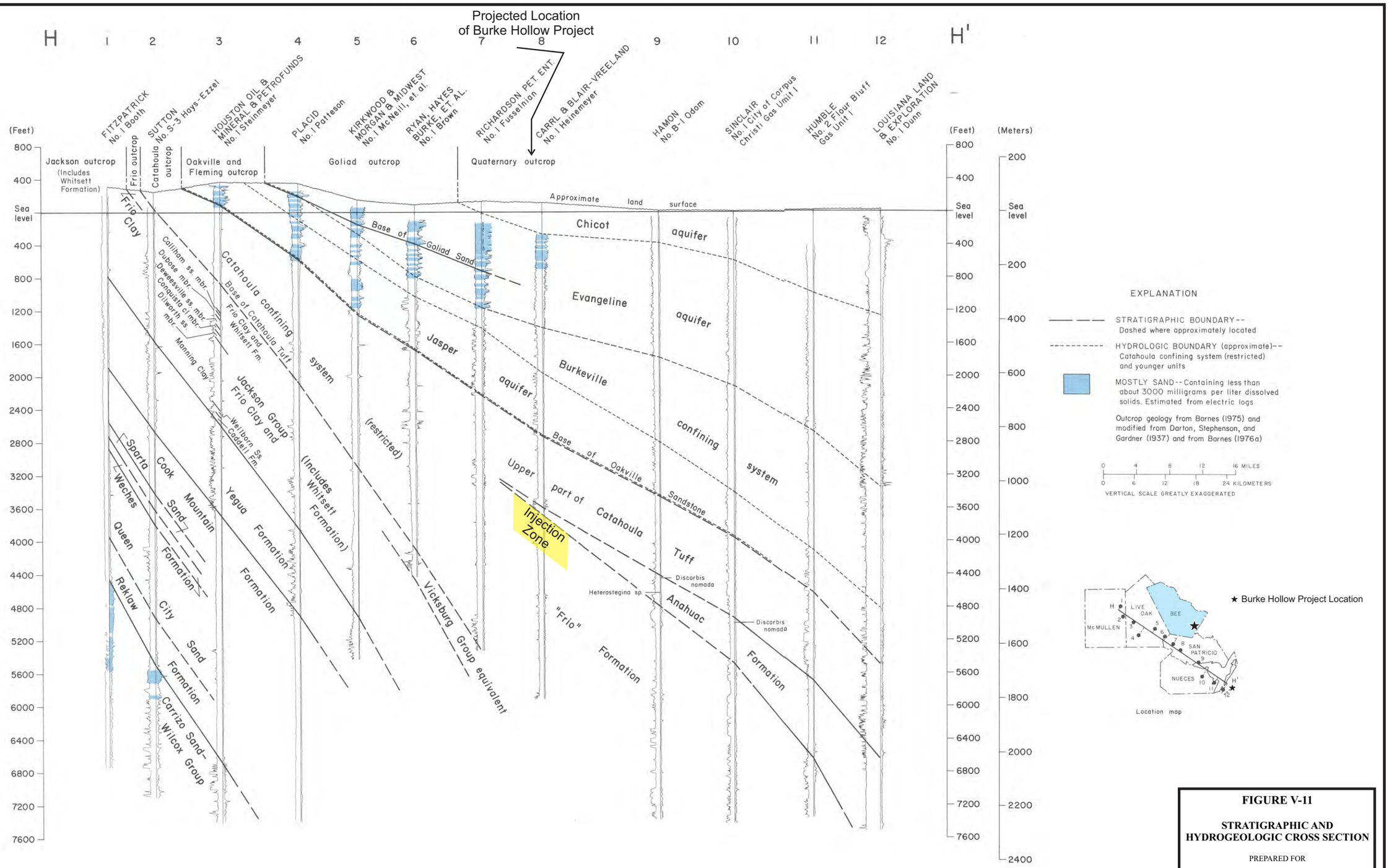
Drawing No.: Figure V-10.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: HKD
Checked By: SKW

Drawing No.: Figure V-11.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: PRG
Checked By: SKW



Source: Baker, 1979.

FIGURE V-11

STRATIGRAPHIC AND HYDROGEOLOGIC CROSS SECTION

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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TERRA DYNAMICS INC

Drawing No.: Figure V-12.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: PRG
Checked By: SKW

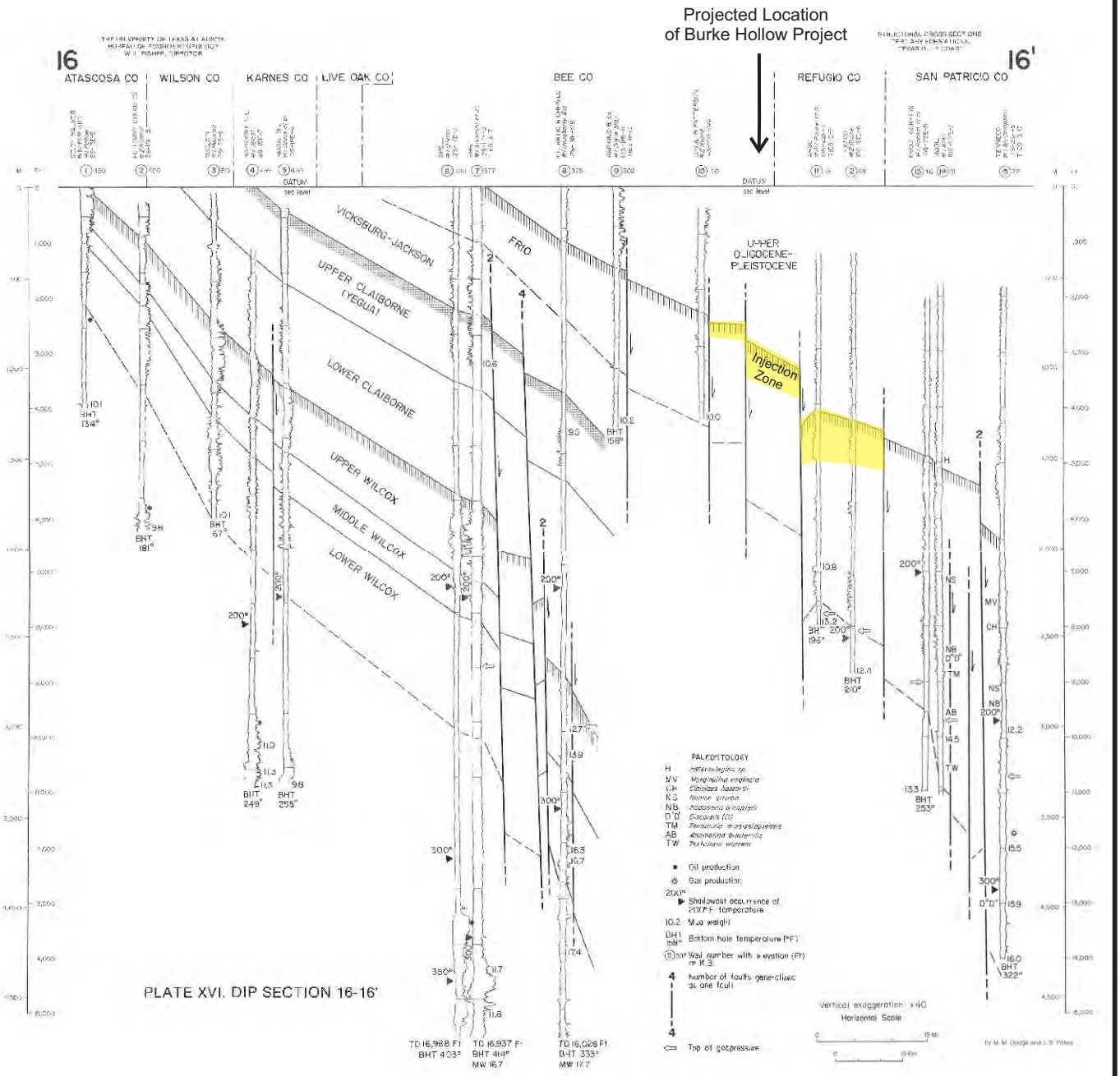
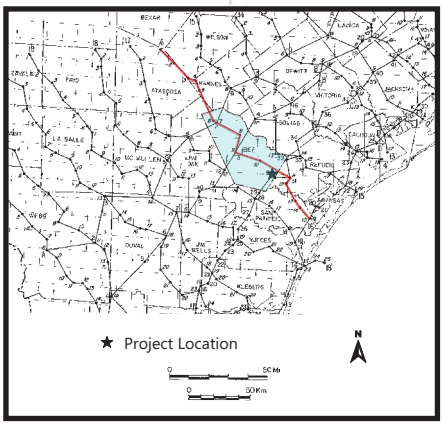


PLATE XVI. DIP SECTION 16-16'



Source: Dodge and Posey, 1981.

FIGURE V-12

REGIONAL DIP STRUCTURAL CROSS SECTION

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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TERRA DYNAMICS INC

Drawing No.: Figure V-13.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: PRG
Checked By: SKW

THE UNIVERSITY OF TEXAS AT AUSTIN
BUREAU OF ECONOMIC GEOLOGY
W. L. FISHER, DIRECTOR

STRUCTURAL CROSS SECTIONS
TERTIARY FORMATIONS,
TEXAS GULF COAST

C — HIDALGO CO — BROOKS CO — JIM WELLS CO — KLEBERG CO — NUECES CO — SAN PATRICIO CO — BEE CO — REFUGIO CO — GOLIAD CO — VICTORIA CO — C'

Projected Location of Burke Hollow Project

Injection Zone

UPPER OLIGOCENE-PLEISTOCENE

FRIO

VICKSBURG-JACKSON

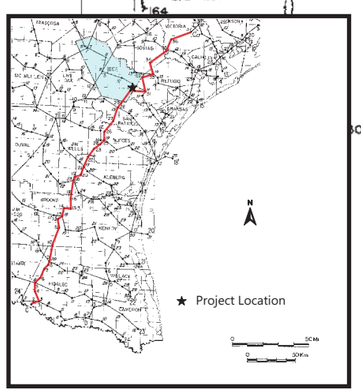
DATUM sea level

JOINS CROSS SECTION C'-C

PALEONTOLOGY

TW *Textularia warreni*
AB *Anomalina bilateralis*
HA *Hantkenina alabamensis*
TH *Textularia hockleyensis*
DY *Discorbis yeguaensis*
EY *Eponides yeguaensis*
CE *Cerotabulimina eximia*

- Oil production
- Gas production
- 200° Shallowest occurrence of 200°F temperature
- 10.3 Mud weight
- BHT 185° Bottom-hole temperature (°F)
- 29 135 Well number with elevation (Ft) at K.B.
- ⇦ Top of geopressure



Source: Dodge and Posey, 1981.

FIGURE V-13

REGIONAL STRIKE STRUCTURAL CROSS SECTION

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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Drawing No.: Figure V-14.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: HKD
Checked By: SKW

★ Burke Hollow Project Location

FIGURE V-14

MAJOR STRUCTURAL FEATURES OF THE TEXAS GULF COAST

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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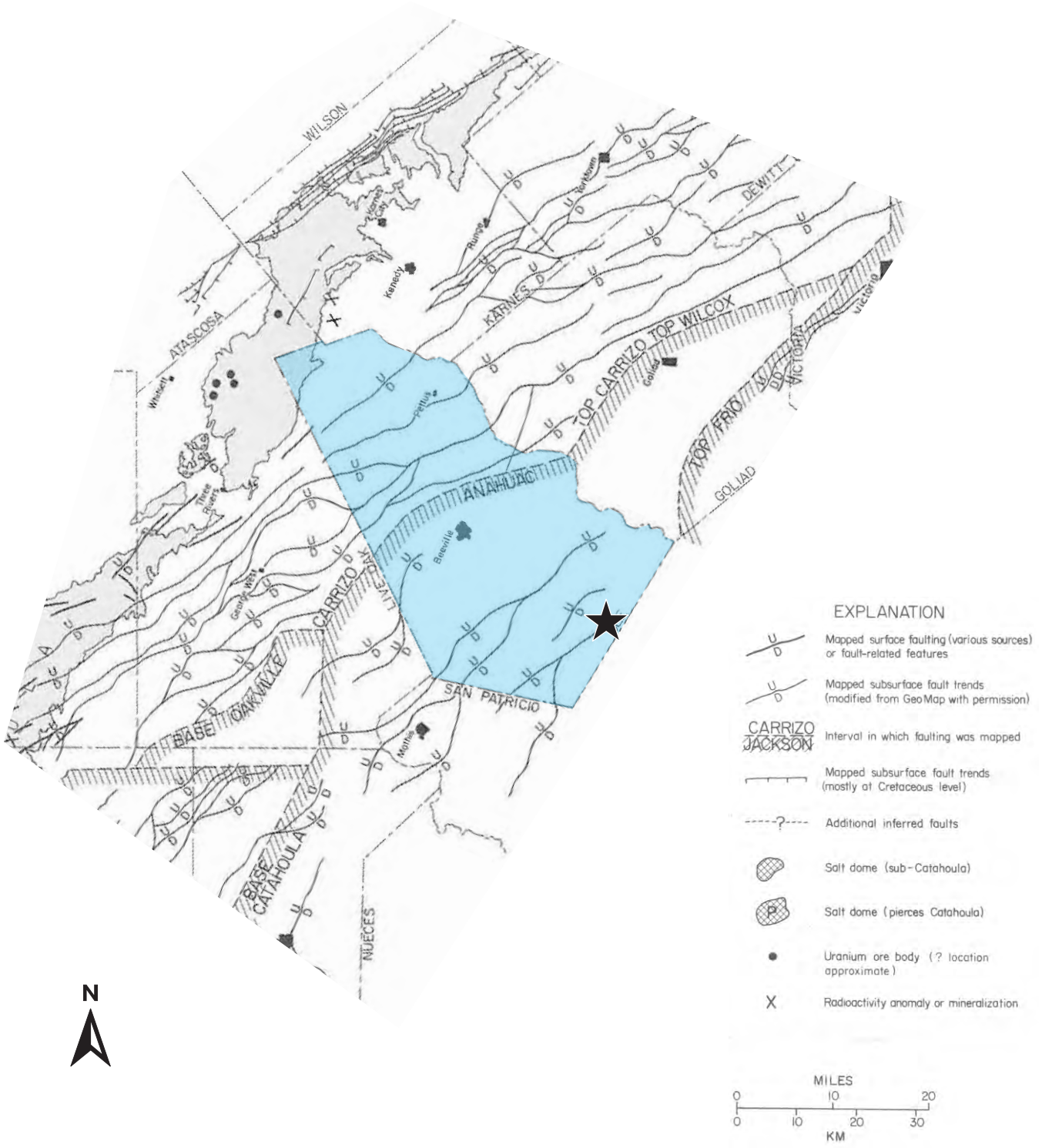
TERRA DYNAMICS INC

Source: Dodge & Posey, 1981.



★ Burke Hollow Project Location

Bee County

Source: Galloway, 1977.

FIGURE V-15

DISTRIBUTION OF MAJOR FAULTS IN BEE COUNTY

PREPARED FOR

URANIUM ENERGY CORPORATION BEE COUNTY, TEXAS

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Drawing No.: Figure V-15.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: HKD
Checked By: SKW

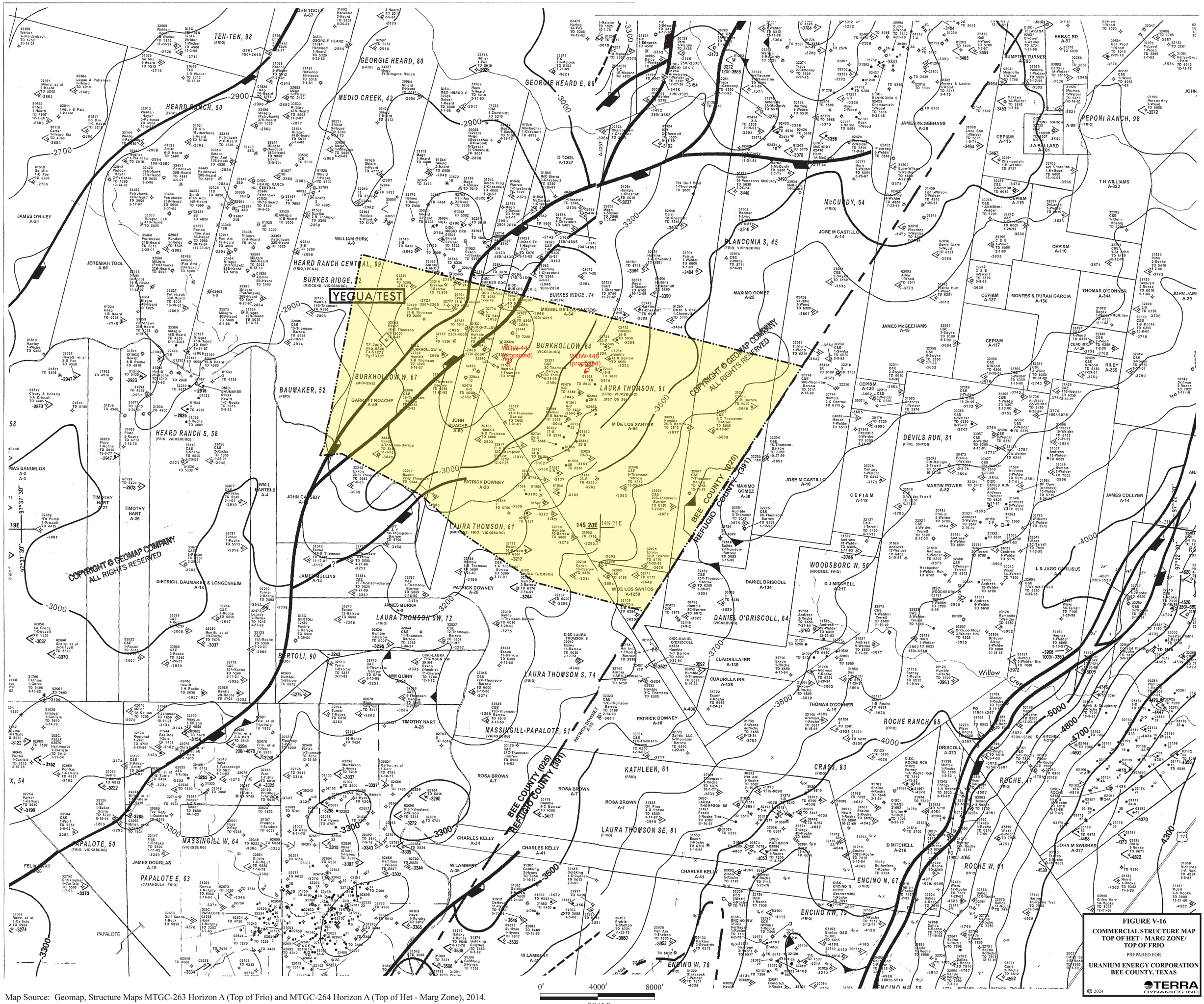


FIGURE V-16

COMMERCIAL STRUCTURE MAP
TOP OF HET - MARG ZONE/
TOP OF FRIO

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

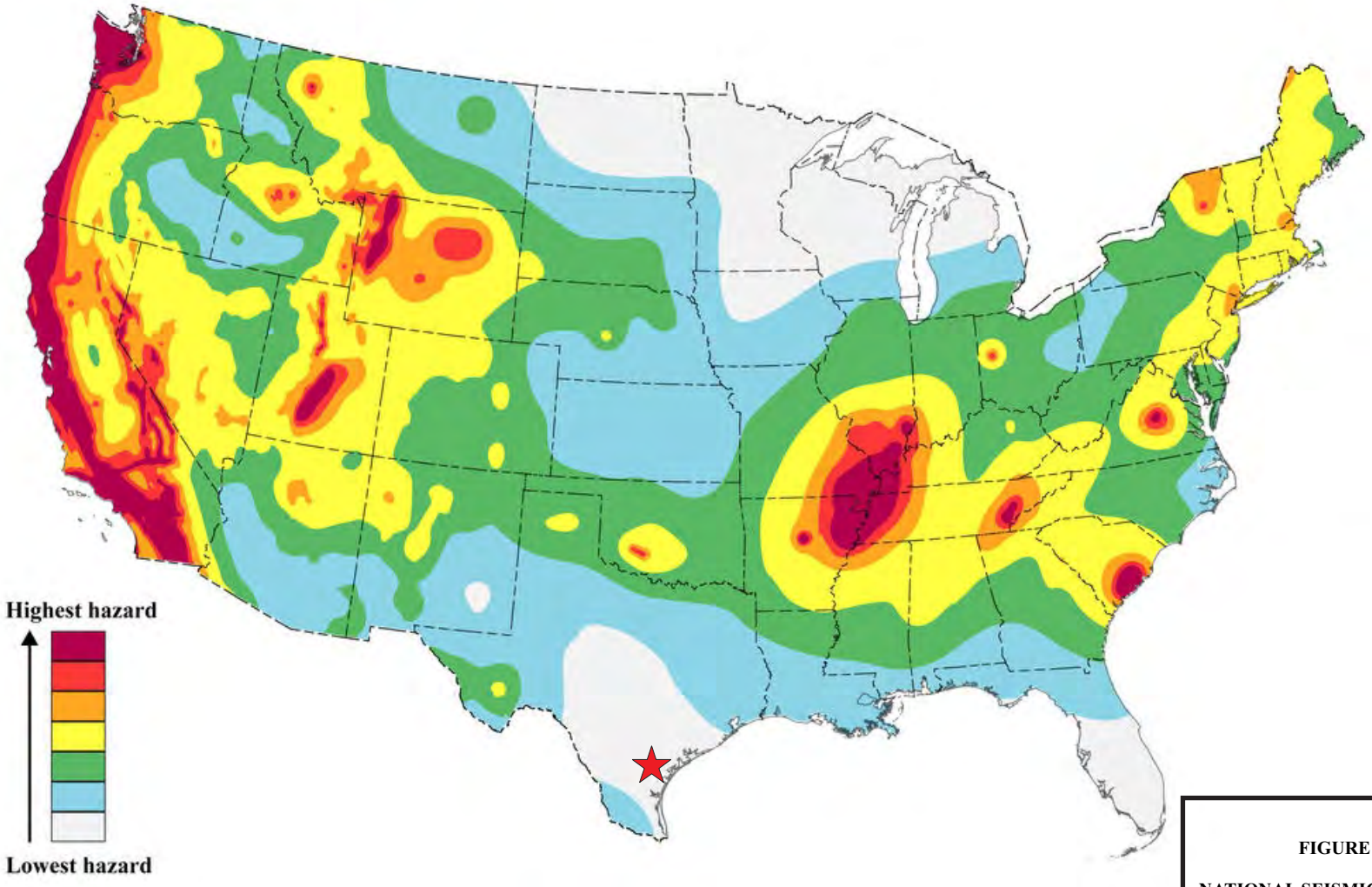
TERRA DYNAMICS INC

© 2024

Map Source: Geomap, Structure Maps MTGC-263 Horizon A (Top of Frio) and MTGC-264 Horizon A (Top of Het - Marg Zone), 2014.

Drawn By: HKD	Drawing No.: Figure V-17
Designed By: HKD	Date: 8/6/2024
Checked By: SKW	Job No.: 24-145

Peak Ground Acceleration with 2% in 50 Year Probability of Exceedance



★ UEC Burke Hollow Project Location
SA = Spectral acceleration
g = acceleration due to gravity = 9.8 m/s^2

Source: USGS, 2024

FIGURE V-17

NATIONAL SEISMIC HAZARD MAP

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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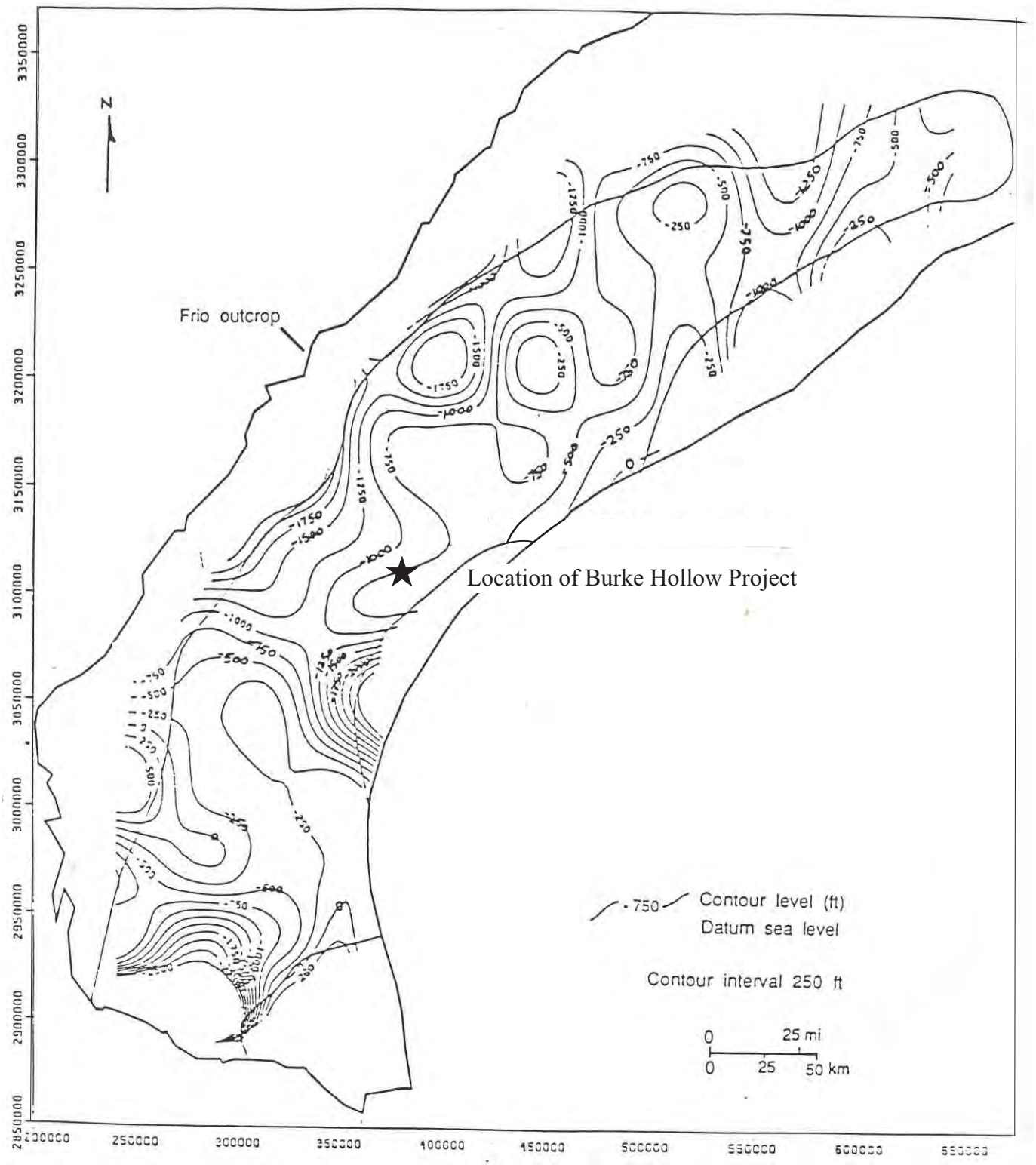

Drawing No.: Figure V-18.cdr
Date: 8/13/2024
Job No.: 24-145

Drawn By: HKD
Designed By: PRG
Checked By: SKW

FIGURE V-18

HYDROLOGIC HEAD MAP
FRIO FROMATION SANDS AT
4000′ - 6000′

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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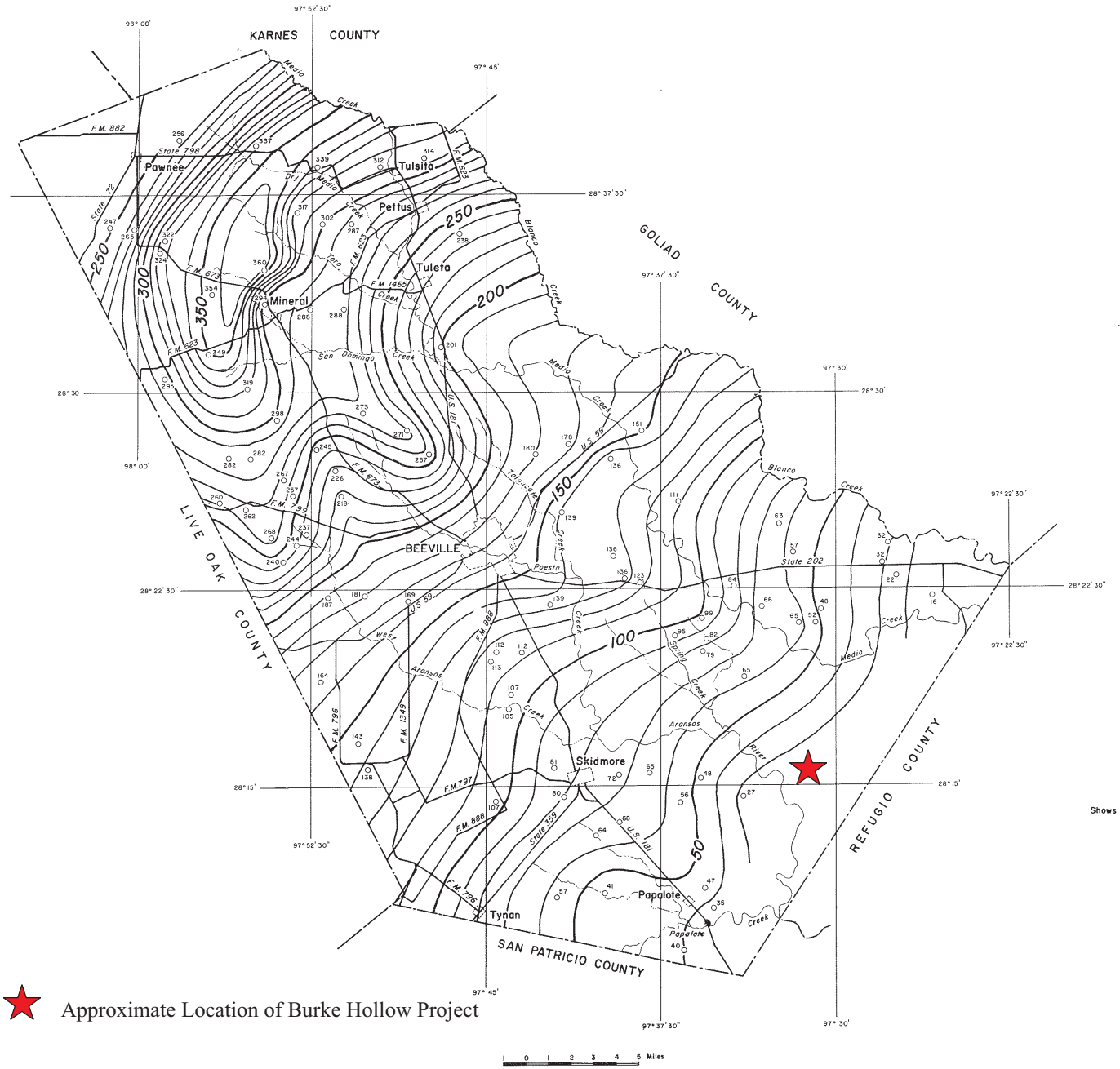
Source: Krietler and Akhter, 1987.

Drawn By: HKD	Drawing No.: Figure V-19.cdr
Designed By: HKD	Date: 8/9/2024
Checked By: SKW	Job No.: 24-145



EXPLANATION

95

Well used for control
Number indicates altitude of water level, in feet above mean sea level

150

Water-level contour
Shows approximate altitude of water levels, in feet
Contour interval, 10 feet
Datum is mean sea level

★ Approximate Location of Burke Hollow Project

Source: Myers and Dale, 1966.

FIGURE V-19

APPROXIMATE ALTITUDE OF WATER LEVELS IN BEE COUNTY, 1963-64

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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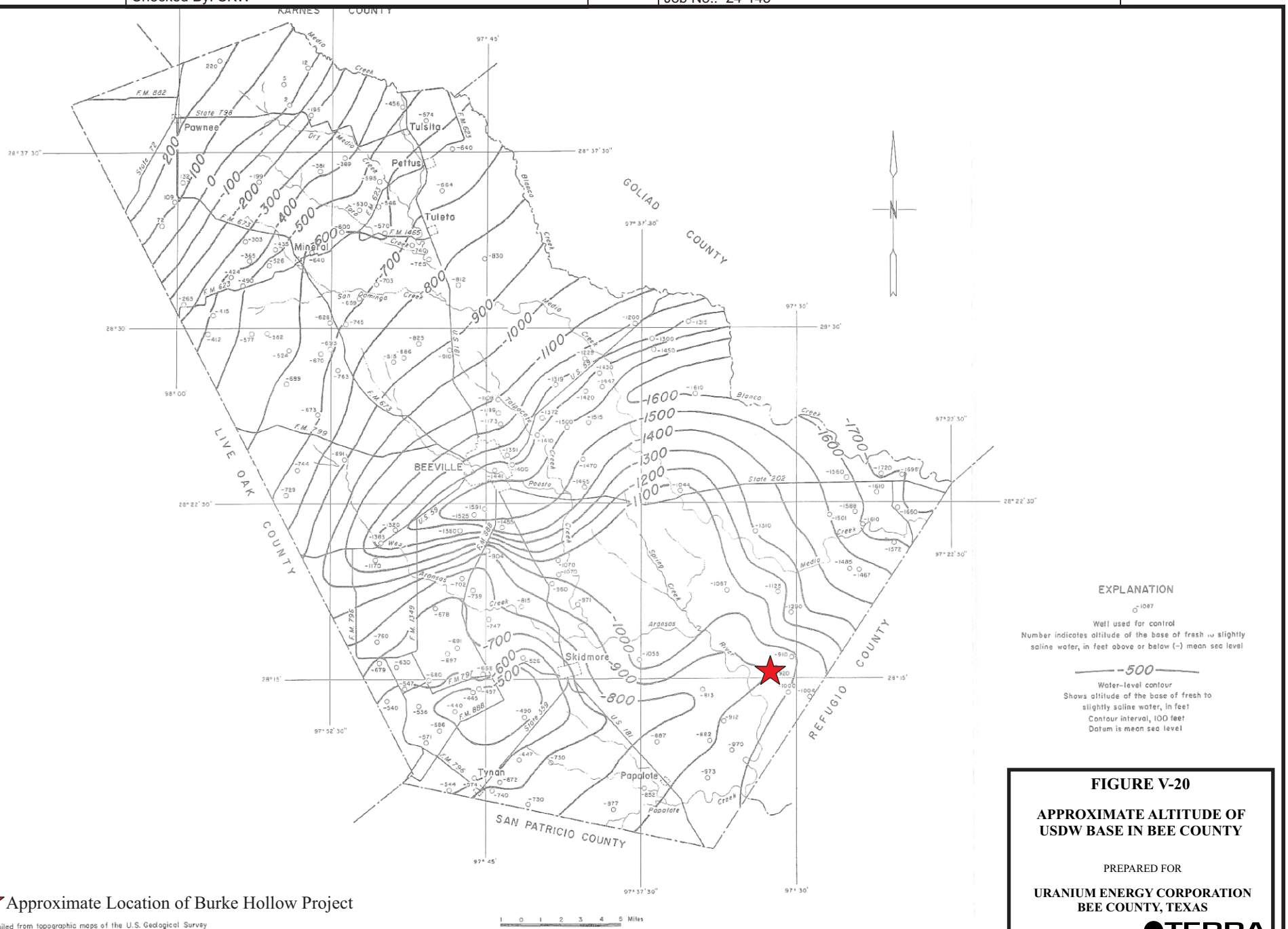
Designed By: HKD	Date: 8/9/2024
Checked By: SKW	Job No.: 24-145



EXPLANATION

1087

Well used for control
Number indicates altitude of the base of fresh to slightly saline water, in feet above or below (–) mean sea level

-500

Water-level contour
Shows altitude of the base of fresh to slightly saline water, in feet
Contour interval, 100 feet
Datum is mean sea level

Approximate Location of Burke Hollow Project

Base compiled from topographic maps of the U.S. Geological Survey and county maps of the Texas State Highway Department

Meyers and Dale, 1966

FIGURE V-20

APPROXIMATE ALTITUDE OF USDW BASE IN BEE COUNTY

PREPARED FOR

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

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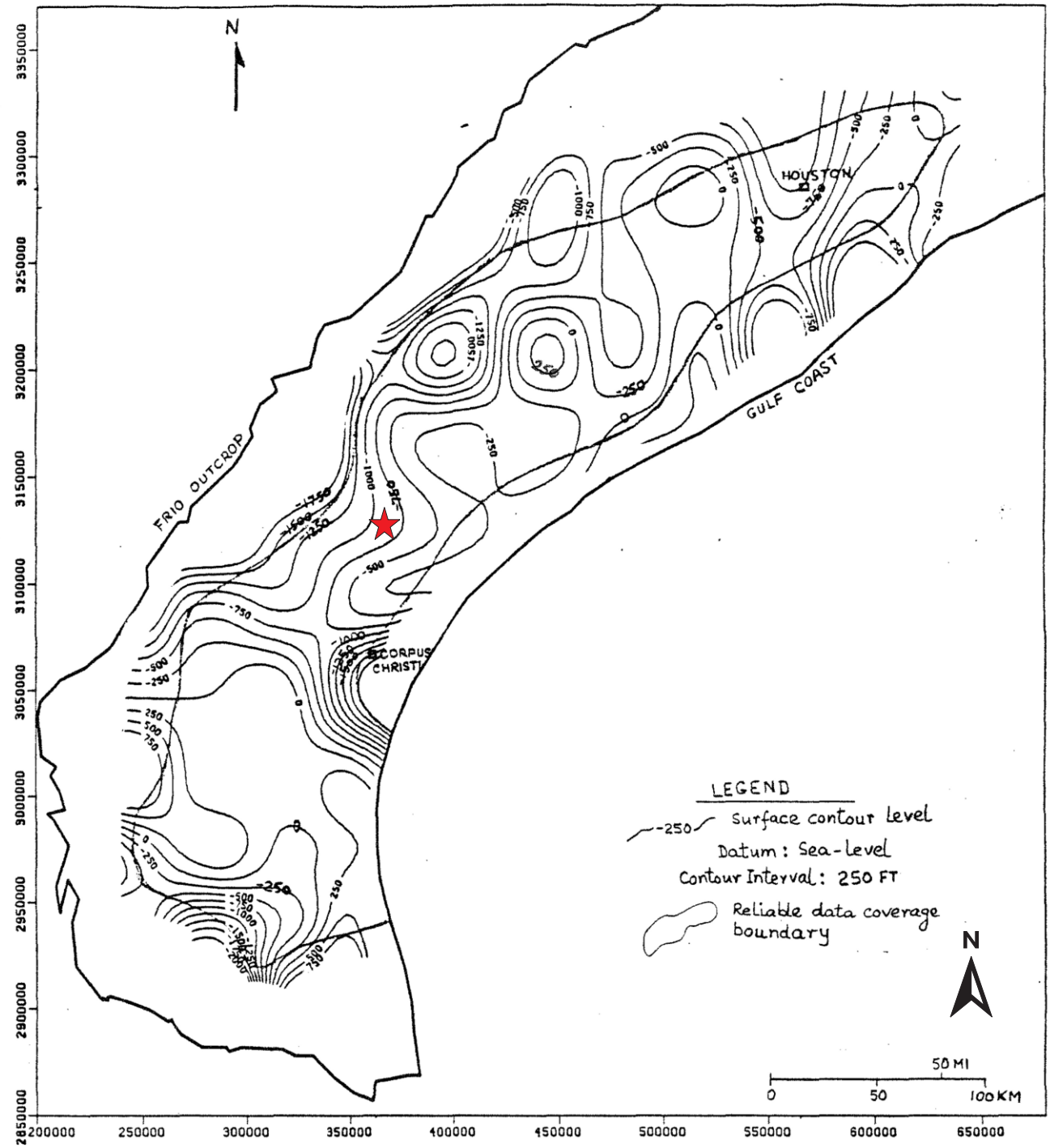


Drawing No.: Figure V-21
Date: 8/6/2024
Job No.: 24-145

Drawn By: HKD
Designed By: PRG
Checked By: SKW

★ UEC Burke Hollow Project Location

Source: Kreitler, 1987

FIGURE V-21

REGIONAL POTENTIOMETRIC SURFACE MAP OF THE TOP OF THE FRIO FORMATION

PREPARED FOR
URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

© 2024
TERRA DYNAMICS INC

A Northwest

A′ Southeast

TIE to B - B′

A1	A2	35	48	64	76	72	91	A3
F. W. Shield G. Heard #1 API# 4202501525	F. W. Shield G. Heard #2 API# 4202502596	Humble O&R Co. L. Thomson #1-B API# 4202501540	Exxon Corp. L. Thomson #13-B API# 4202530194	Humble O&R Co. L. Thomson #5-B API# 4202502477	C & E Operating Inc. Thomson-Barrow Corp. #3-C API# 4202532821	Humble O&R Co. L. Barrow #11-B API# 4202501562	C & E Operating Inc. Thomson-Barrow Corp. #16-C API# 4239132304	Humble O&R Co. L.T. Barrow #2C API# 4239130114
KB-137.5′ GL-129′	KB-139′ GL-133′	KB-160′ GL-147′	KB-130.6′ GL-117.6′	KB-127′ GL-113′	KB-130′ GL-121′	KB-120′ GL-110′	KB-82.7′ GL-72.7′	KB-84′ GL-76′

WDW-447 Proposed GL-130′

WDW-448 Proposed GL-109′

Approximate Land Surface

Lissie and Goliad Undifferientiated

Base of Goliad

Lagarto

Approximate Base of USDW

Oakville

Catahoula

Anahuac

Top of Het Sand

Confining Zone

Injection Zone

Injection Interval

Frio

Vicksburg Group

Fault 3,334′-(-2,260′)

WDW-447 Proposed TD Approximately 3,900′

WDW-448 Proposed TD Approximately 3,900′

TD4,800′

TD 5,420′

TD 5,430′
Perfs (3,344′ - 3,348′)
(4,101′ - 4,106′)
(4,125′ - 4,130′)

TD 4,924′

TD 6,002′

TD 5,500′

TD 5,600′
Perfs (5,534′ - 5,542′)

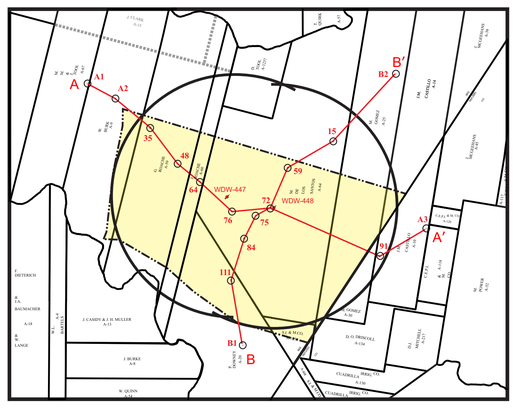
TD 6,050′
Perfs (5,021′ - 5,028′)
(5,755′ - 5,758′)

TD 6,115′

Marg Texanna

Depth, Mean Sea Level

200′ 0′ -400′ -800′ -1,200′ -1,600′ -2,000′ -2,400′ -2,800′ -3,200′ -3,600′ -4,000′ -4,400′ -4,800′ -5,200′ -5,600′ -6,000′



CROSS SECTION LOCATION MAP

SCALE

1″ = 400′

1″ = 2000′

Depths relative to Mean Seal Level

STATE OF TEXAS
STEPHANIE K. WILLIAMS
GEOLOGY
NO. 11196
LICENSED
PROFESSIONAL GEOSCIENTIST

12/6/2024
Terra Dynamics Incorporated
F-3561

TERRA DYNAMICS INC

PLATE V-1

Dip-Oriented Structural Cross Section A-A′

PREPARED FOR:

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

DRAWN BY: SKW	SCALES: As Indicated	DATE: 12/5/2024
DESIGNED BY: A. BELL		JOB NO.: 24-145
CHECKED BY: SKW		© 2024

B
Southwest

B′
Northeast

TIE to A - A′

B1	111	94	75	72	59	15	B2
Humble O&R Co. L. Barrow #8 API# 4202502107	Humble O&R Co. L. Barrow #6T & 6C API# 4202501568	Humble O&R Co. L. T. Barrow #24-B API# 4202502741	Mueller Eng. Corp. L. T. Barrow #31-B API# 4202532499	Humble O&R Co. L. Barrow #11-B API# 4202501562	Humble O&R Co. L. Barrow #21-B API# 4202502451	Petrus Operating Welder #1 API# 4202531901	Ransom Horn McCurdy #1 API# 4239130532
KB-100′ GL-89′	KB-114′ GL-104′	KB-118′ GL-107′	KB-126′ GL-115′	KB-120′ GL-110′	KB-129′ GL-120′	KB-110.8′ GL-98.8′	KB-104.5′ KB-94.5′

WDW-448 GL-109′

Approximate Land Surface

Lissie and Goliad Undifferientiated

Base of Goliad

Lagarto

Approximate Base of USDW

Oakville

Catahoula

Anahuac

Top of Het Sand

Confining Zone

Injection Interval

Injection Zone

Perfs

WDW-448 Proposed TD Approximately 3,900′

Frio

Vicksburg Group

TD 6,000′

TD 5,700′

TD 5,585′
Perfs (5,505′ - 5,507′)

TD 5,560′
SWD Injection Perfs (3,200′ - 3,210′)
Well Shut In

TD 5,600′
Perfs (5,534′ - 5,542′)

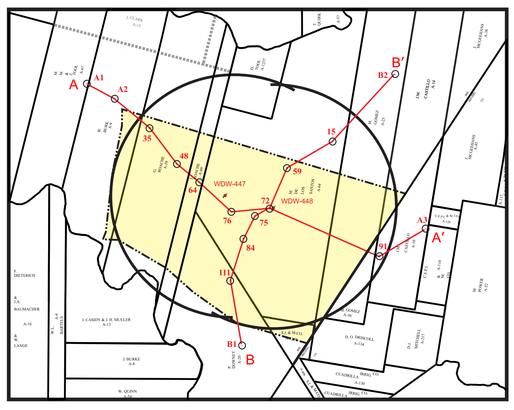
TD 5,630′

TD 6,015′

TD 5,555′

Depth, Mean Sea Level

200′ 0′ -400′ -800′ -1,200′ -1,600′ -2,000′ -2,400′ -2,800′ -3,200′ -3,600′ -4,000′ -4,400′ -4,800′ -5,200′ -5,600′ -6,000′



CROSS SECTION LOCATION MAP

SCALE
1″ = 400′
1″ = 2000′

Depths relative to Mean Seal Level

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TERRA DYNAMICS INC

PLATE V-2

Strike-Oriented Structural Cross Section B-B′

PREPARED FOR:

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

DRAWN BY: SKW	SCALES: As Indicated	DATE: 12/5/2024	
DESIGNED BY: A. BELL		JOB NO.: 24-145	© 2024
CHECKED BY: SKW			

MAP EXPLANATION

- Class I Disposal Well, Proposed
- New Suspended Or Temp. Abd.
- Dry & Abandoned
- Oil Well
- Oil Well, Abandoned
- Gas Well
- Gas Well, Abandoned
- New SVC & Salt Water Injection
- Wet Gas or Condensate Well
- Location

-3,000 — Line of Equal Elevation (relative to mean sea level)

102 — Log Number

-3,123′ — Elevation Top of Injection Interval

A - A′ — Line of Cross Section

U/D — Fault

Contour Interval = 100 Feet

Project Area

1:24,000

0.5 0 0.5 1 1.5 Miles

1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

Projection: Datum: NAD 1927 Projection:NAD 1927 UTM Zone 14N
10,000-foot ticks: Datum: NAD 1927 Projection: StatePlane Texas South Central FIPS 4204

N

TOBIN.

PLATE V-3

TERRA DYNAMICS INC

STRUCTURE MAP OF INJECTION INTERVAL

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DESIGNED BY:	HKD	As Indicated	11/13/2024
CHECKED BY:	SKW	JOB NO.:	24-145 © 2024

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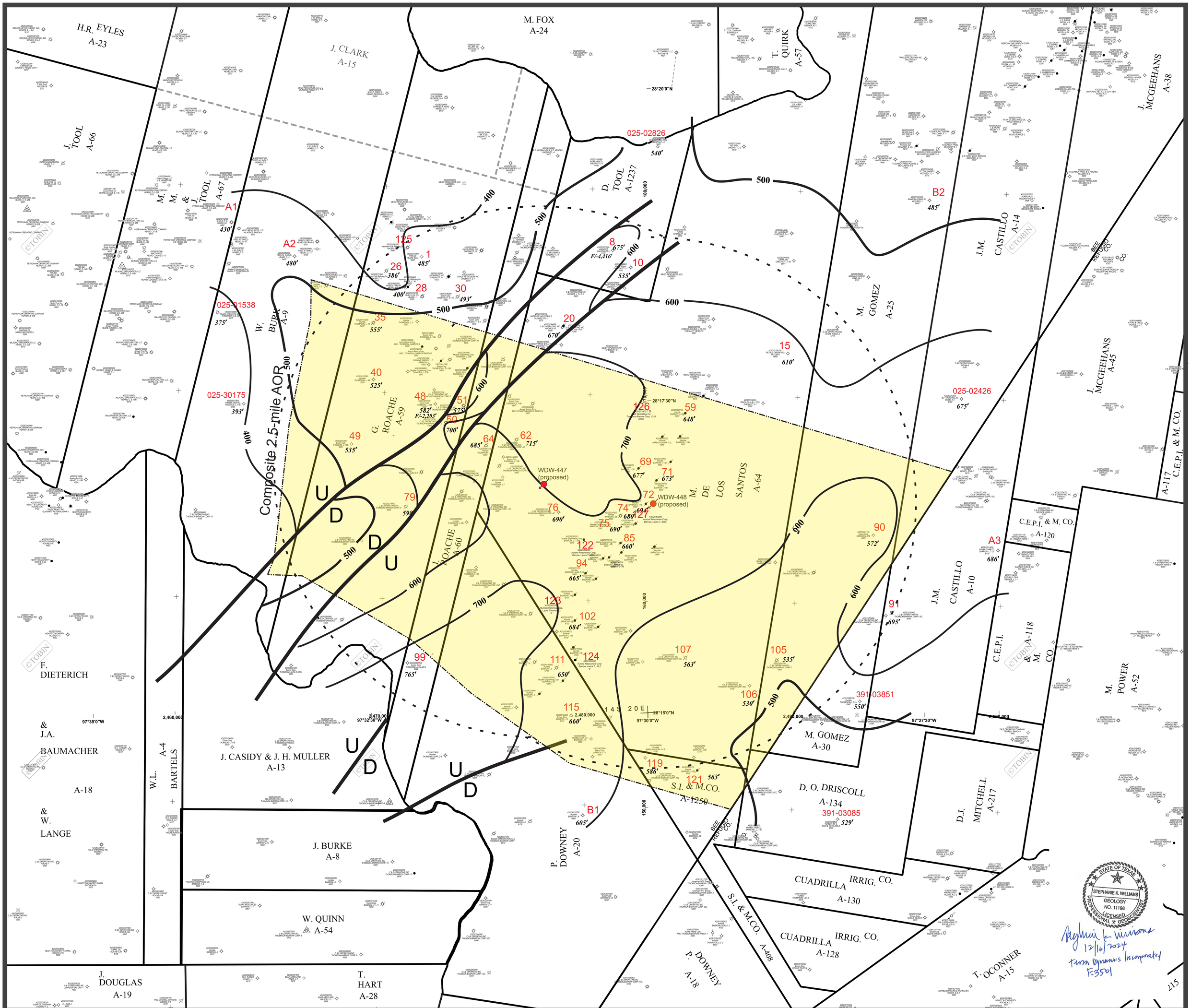
Modified Base Map from P2Tobin Map Data



MAP EXPLANATION

- Class I Disposal Well, Proposed
- New Suspended Or Temp. Abd.
- Dry & Abandoned
- Oil Well
- Oil Well, Abandoned
- Gas Well
- Gas Well, Abandoned
- New SVC & Salt Water Injection
- Wet Gas or Condensate Well
- Location

600 — Line of Equal Thickness (in feet)

102 — Log Number

684' — Gross Thickness of Injection Interval (in feet)

U/D — Fault

Contour Interval = 100 Feet

Project Area

1:24,000

Miles: 0.5 0 0.5 1 1.5

Feet: 1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000

Projection: Datum: NAD 1927 Projection:NAD 1927 UTM Zone 14N
10,000-foot ticks: Datum: NAD 1927 Projection: StatePlane Texas South Central FIPS 4204

N

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PLATE V-4

TERRA DYNAMICS INC

GROSS THICKNESS MAP OF INJECTION INTERVAL

PREPARED FOR
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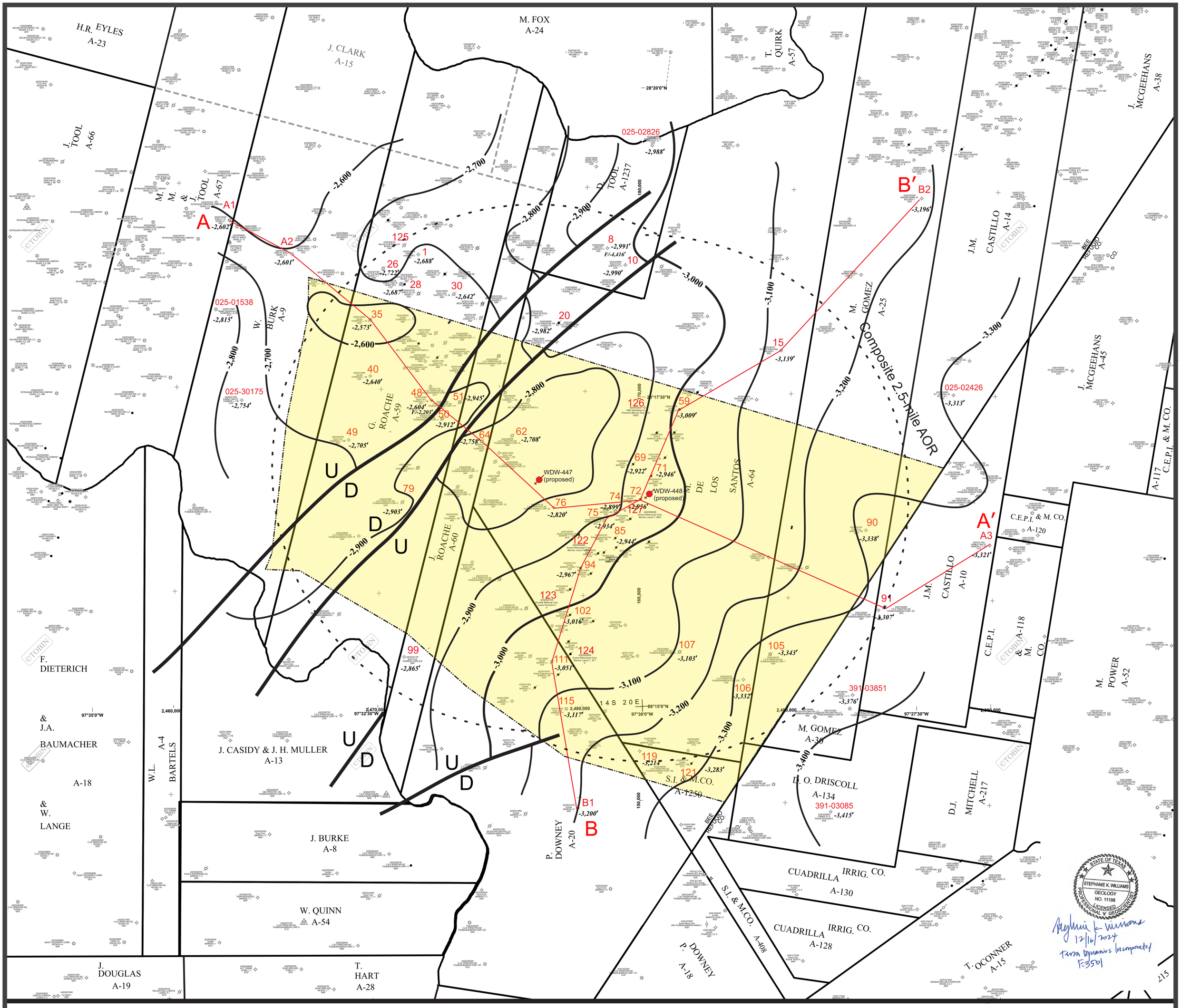
DRAWN BY: HKD	SCALE: As Indicated	DATE: 11/13/2024	
DESIGNED BY: HKD		JOB NO.: 24-145	© 2024
CHECKED BY: SKW			

Modified Base Map from P2 Tobin Map Data



MAP EXPLANATION

- Class I Disposal Well, Proposed
- New Suspended Or Temp. Abd.
- Dry & Abandoned
- Oil Well
- Oil Well, Abandoned
- Gas Well
- Gas Well, Abandoned
- New SVC & Salt Water Injection
- Wet Gas or Condensate Well
- Location

-3,000 — Line of Equal Elevation (relative to mean sea level)

102 — Log Number

-3,016′ — Elevation Top of Injection Zone (Het Formation)

A - A′ — Line of Cross Section

U/D — Fault

Contour Interval = 100 Feet

Project Area

1:24,000

0.5 0 0.5 1 1.5 Miles

1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

Projection: Datum: NAD 1927 Projection:NAD 1927 UTM Zone 14N
10,000-foot ticks: Datum: NAD 1927 Projection: StatePlane Texas South Central FIPS 4204

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PLATE V-5

TERRA DYNAMICS INC

STRUCTURE MAP OF INJECTION ZONE

PREPARED FOR
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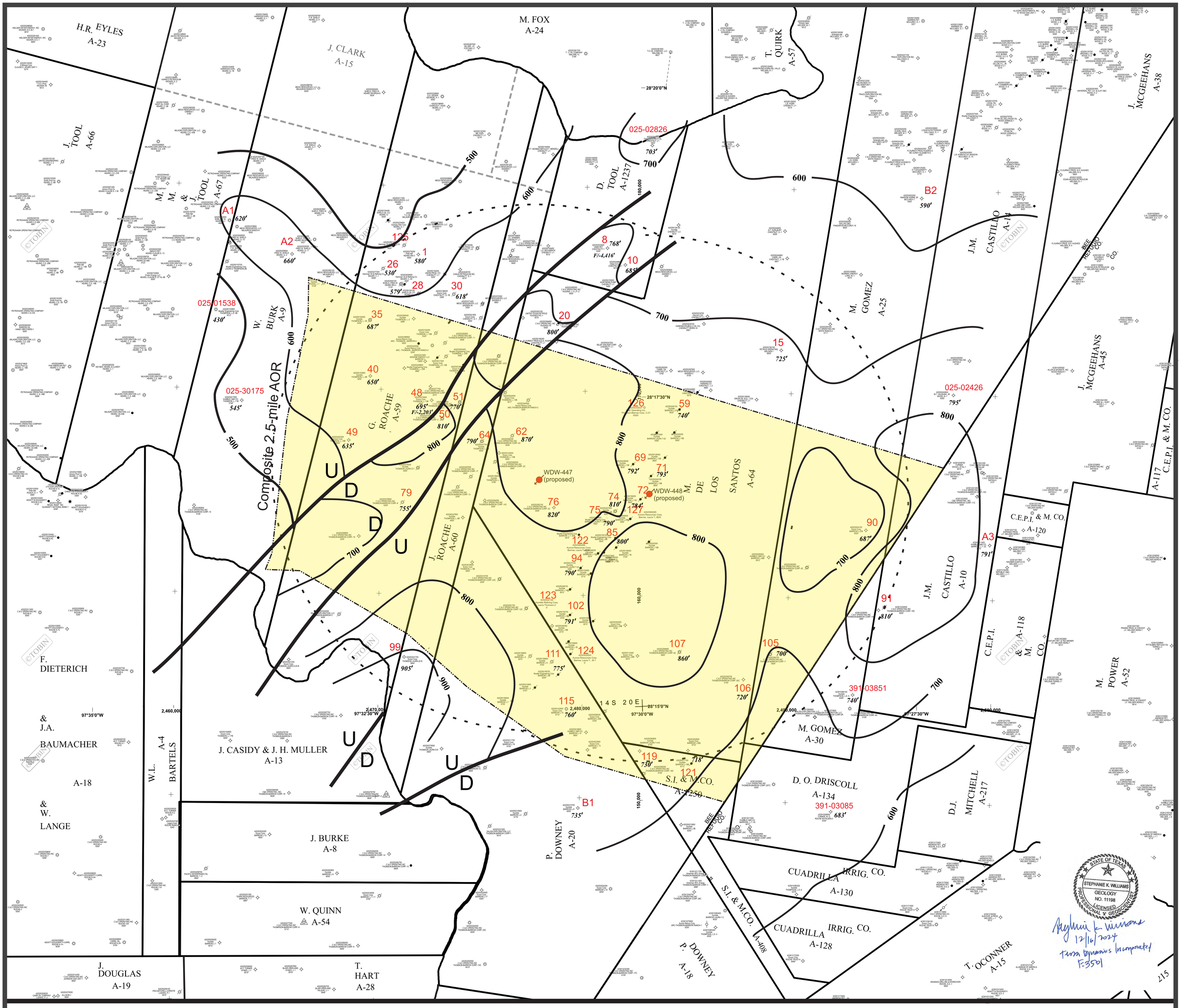
DESIGNED BY:	HKD		JOB NO.: 24-145
CHECKED BY:	SKW		© 2024



MAP EXPLANATION

- Class I Disposal Well, Proposed
- New Suspended Or Temp. Abd.
- Dry & Abandoned
- Oil Well
- Oil Well, Abandoned
- Gas Well
- Gas Well, Abandoned
- New SVC & Salt Water Injection
- Wet Gas or Condensate Well
- Location

700 — Line of Equal Thickness (in feet)

102 — Log Number

791' — Gross Thickness of Injection Zone (in feet)

U/D — Fault

Contour Interval = 100 Feet

Project Area

1:24,000

0.5 0 0.5 1 1.5 Miles

1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

Projection: Datum: NAD 1927 Projection:NAD 1927 UTM Zone 14N
10,000-foot ticks: Datum: NAD 1927 Projection: StatePlane Texas South Central FIPS 4204

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PLATE V-6

TERRA DYNAMICS INC

GROSS THICKNESS MAP OF INJECTION ZONE

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DESIGNED BY: HKD		JOB NO.: 24-145	© 2024
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Modified Base Map from P2 Tobin Map Data

MAP EXPLANATION

- Class I Disposal Well, Proposed
- New Suspended Or Temp. Abd.
- Dry & Abandoned
- Oil Well
- Oil Well, Abandoned
- Gas Well
- Gas Well, Abandoned
- New SVC & Salt Water Injection
- Wet Gas or Condensate Well
- Location

-3,000 — Line of Equal Elevation (relative to mean sea level)

102 — Log Number

-2,733′ — Elevation Top of Confining Zone (Anahuac Formation)

A - A′ — Line of Cross Section

U/D — Fault

Contour Interval = 100 Feet

Project Area

1:24,000

0.5 0 0.5 1 1.5 Miles

1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

Projection: Datum: NAD 1927 Projection:NAD 1927 UTM Zone 14N
10,000-foot ticks: Datum: NAD 1927 Projection: StatePlane Texas South Central FIPS 4204

N

TOBIN

Modified Base Map from P2Tobin Map Data

PLATE V-7

TERRA DYNAMICS INC

STRUCTURE MAP OF CONFINING ZONE

PREPARED FOR
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BEE COUNTY, TEXAS

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CHECKED BY:	SKW	JOB NO.:	24-145

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H.R. EYLES A-23

M. FOX A-24

J. CLARK A-15

T. QUIRK A-57

J. TOOL A-66

M. M. & J. TOOL A-67

D. TOOL A-1237

J. MCGEEHANS A-38

J.M. CASTILLO A-14

M. GOMEZ A-25

J. MCGEEHANS A-45

C.E.P.I. & M. CO. A-117

C.E.P.I. & M. CO. A-120

J.M. CASTILLO A-10

C.E.P.I. & M. CO. A-118

M. POWER A-52

M. GOMEZ A-30

D. O. DRISCOLL A-134

D.J. MITCHELL A-217

S.I. & M.CO. A-1250

CUADRILLA IRRIG. CO. A-130

CUADRILLA IRRIG. CO. A-128

S.I. & M.CO. A-408

P. DOWNEY A-20

P. DOWNEY A-18

T. OCONNER A-15

W. BURK A-9

G. ROACHE A-59

J. ROACHE A-60

M. DE LOS SANTOS A-64

F. DIETERICH

& J.A. BAUMACHER A-18

& W. LANGE

W.L. BARTELS A-4

J. CASIDY & J. H. MUller A-13

J. BURKE A-8

W. QUINN A-54

J. DOUGLAS A-19

T. HART A-28

BEE REFUGIO CO.

025-02826

025-01538

025-30175

025-02426

391-03851

391-03085

A1

A2

A3

B1

B2

Composite 2.5-mile AOR

U D U D U D

WDW-447 (proposed)

WDW-448 (proposed)

28°20'0"N

28°17'30"N

28°15'0"N

14S 20E

97°35'0"W

97°32'30"W

97°30'0"W

97°27'30"W

2,460,000

2,470,000

2,480,000

2,490,000

160,000

150,000

MAP EXPLANATION

- Class I Disposal Well, Proposed
- New Suspended Or Temp. Abd.
- Dry & Abandoned
- Oil Well
- Oil Well, Abandoned
- Gas Well
- Gas Well, Abandoned
- New SVC & Salt Water Injection
- Wet Gas or Condensate Well
- Location

300 — Line of Equal Thickness (in feet)

102 — Log Number

283′ — Gross Thickness of Confining Zone (in feet)

U/D — Fault

Contour Interval = 50 Feet

Project Area

1:24,000

0.5 0 0.5 1 1.5 Miles

1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

Projection: Datum: NAD 1927 Projection:NAD 1927 UTM Zone 14N
10,000-foot ticks: Datum: NAD 1927 Projection: StatePlane Texas South Central FIPS 4204

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Modified Base Map from P2Tobin Map Data

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12/6/2024
Terra Dynamics Incorporated
F-3501

PLATE V-8

TERRA DYNAMICS INC

GROSS THICKNESS MAP OF CONFINING ZONE

PREPARED FOR
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BEE COUNTY, TEXAS

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DESIGNED BY:	HKD	As Indicated	12/8/2024
CHECKED BY:	SKW	JOB NO.:	24-145

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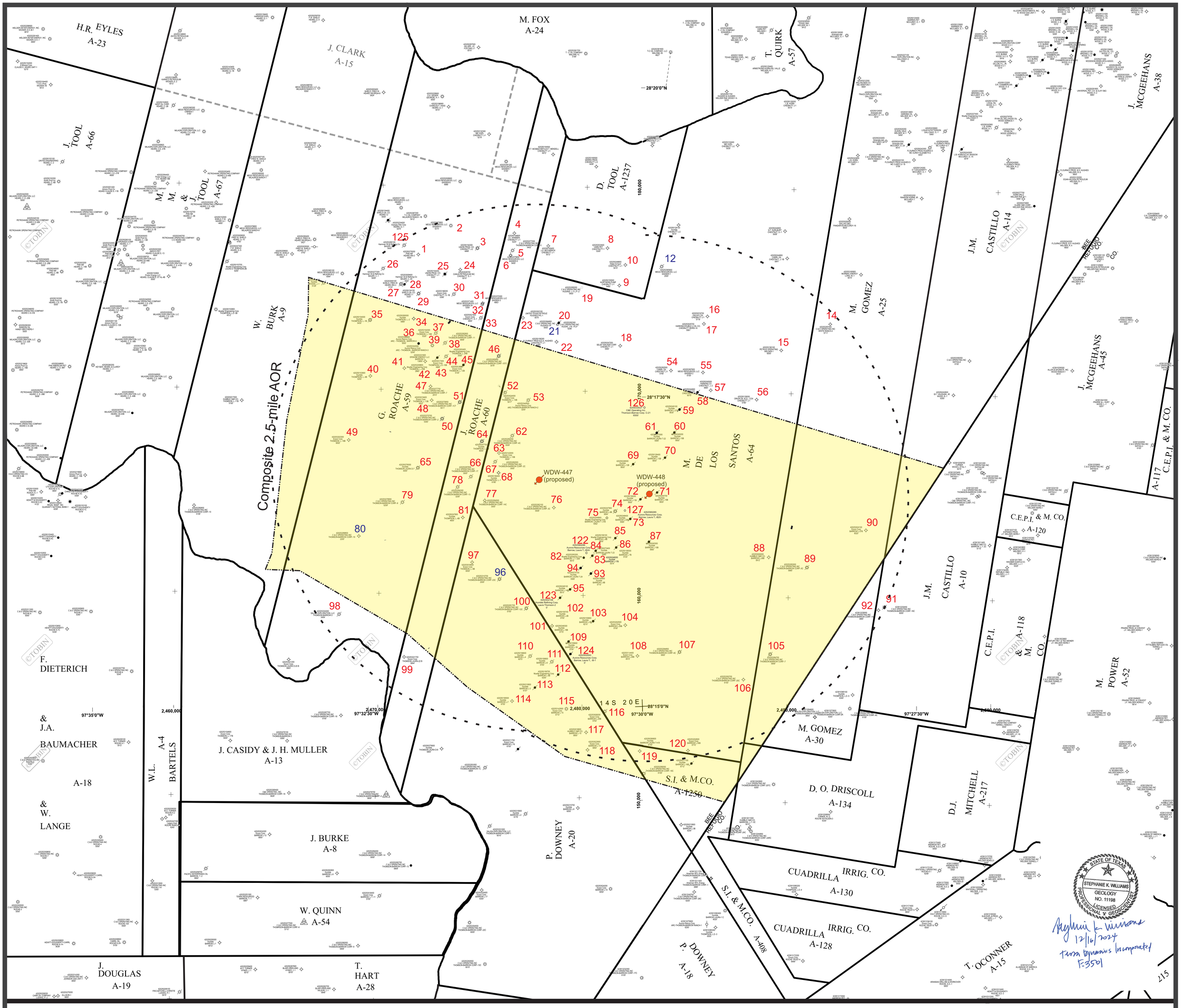

MAP EXPLANATION

- Class I Disposal Well, Proposed
- New Suspended Or Temp. Abd.
- Dry & Abandoned
- Oil Well
- Oil Well, Abandoned
- Gas Well
- Gas Well, Abandoned
- New SVC & Salt Water Injection
- Wet Gas or Condensate Well
- Location

44 — AOR Well Identification No.

Red - Penetrate Confining and/or Injection Zone
Blue - Do Not Penetrate Confining and/or Injection Zone

Project Area

△ New Wells
Current To: Jan 13, 2014

1:24,000

0.5 0 0.5 1 1.5 Miles

1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

Projection: Datum: NAD 1927 Projection:NAD 1927 UTM Zone 14N
10,000-foot ticks: Datum: NAD 1927 Projection: StatePlane Texas South Central FIPS 4204

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12/6/2024
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PLATE V-9

TERRA DYNAMICS INC

UNINTERPRETED BASE MAP

PREPARED FOR
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BEE COUNTY, TEXAS

DRAWN BY:	HKD	SCALE: As Indicated	DATE: 12/5/2024
DESIGNED BY:	HKD		JOB NO.: 24-145
CHECKED BY:	SKW		© 2024

Engineering Seal

Signature by Texas Professional Engineer

I, Sergio A. Garcia Prada, the undersigned state: As an employee of Terra Dynamics Incorporated that I am authorized to prepare this document (***VI. Injection Well Engineering Report***) and that this document (***VI. Injection Well Engineering Report***) was prepared under my supervision and direction. All facts stated herein are true, correct and complete to the best of my knowledge. The specifications and recommendations attested to in this document (***VI. Injection Well Engineering Report***) were prepared in accordance with generally and currently accepted engineering principles and practices. The engineering drawings, specifications, and other related documents referenced herein are subject to revision based on drilling and completion of the WDW-447 and WDW-448 injection wells.

12/19/24

Signature Date

Registered Professional Engineer
#154026, State of Texas
Terra Dynamics Incorporated
Texas Registered Engineering Firm
F-3501

Document pages VI-1 to VI-40 and Table VI-1 are covered by the seal.

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TERRA DYNAMICS INC

VI. INJECTION WELL ENGINEERING REPORT

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VI. INJECTION WELL ENGINEERING REPORT

Uranium Energy Corporation (UEC) is requesting permits for two proposed Class I injection wells (WDW-447 and WDW-448) to be located and operated at its Burke Hollow in situ uranium mining facility in Bee County, Texas. The WDW-447 and WDW-448 injection wells will be constructed in accordance with provisions and specifications set forth in 30 TAC §331.62.

Section VI.A discusses the procedures that will be followed to drill, construct, test, and plug and abandon (when operations cease) the UEC proposed injection wells.

VI.A. Proposed New Well Construction and Completion Summary

All depths in section VI.A of this permit application, unless otherwise noted, are referenced to ground level. The Injection Zone is the Lower Anahuac and Upper Frio Formations between the approximate subsurface depths of 2,940 to 3,900 feet below ground level (BGL). The Injection Interval for WDW-447 and WDW-448 consists of the Heterostegina sp. Sand (identified as the Het Sand) located within the Frio Formation. The Injection Interval is found between the approximate subsurface depths of 3,060 to 3,900 BGL.

VI.A.1 Engineering Schematic of Well

Figure VI-1 is a schematic drawing illustrating the proposed construction details of proposed wells WDW-447 and WDW-448. The diagram includes information on type, size, weight, grade and setting depths for the tubing, casing and the packer. All depths shown on the schematic are referenced to ground level. The proposed injection wells WDW-447 and WDW-448 will be vertical holes drilled to a total depth (TD) of approximately 3,900 ft.

VI.A.2 Total Depth of Well

The proposed TD of WDW-447 and WDW-448 is approximately 3,900 feet to allow injection into the Het Sand Injection Interval.

VI.A.3 Casing and Tubing Strings Details

The 10 3/4-inch surface casing of the injection wells will be set and cemented at approximately 1,800 feet. The 7 5/8-inch longstring casing of the injection wells will be set and cemented at approximately 3,900 feet. The 4 1/2-inch injection tubing will be set into the packer assembly via an anchor seal assembly at approximately 2,920 feet.

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The proposed wells will be completed with 7 5/8-inch longstring casing set and cemented at approximately 3,900 feet by circulating cement from the base of the casing to the surface using a minimum of 120 percent of the calculated annular volume (or as appropriate based on borehole conditions). Setting the casing at the proposed depth allows access to the Het Sand Injection Interval through perforated casing completion techniques.

VI.A.3.a Casing and Tubing Specifications

The 10 3/4-inch surface casing will consist of API Standard J-55 (or equivalent) grade carbon steel.

10 3/4-inch, 40.5 lb/ft, J-55, STC Casing Specifications are as Follows:

Wall	0.350 inches
id	10.050 inches
Drift	9.894 inches
Coupling od	11.750 inches
Capacity	0.0981 bbl/ft
Length	±1,800 feet
Setting Depth	±1,800 feet
Life Expectancy	50+ years

The 7 5/8-inch longstring casing will consist of API Standard J-55 (or equivalent) grade carbon steel.

7 5/8-inch, 26.4 lb/ft, J-55, LTC Casing Specifications are as Follows:

Wall	0.328 inches
id	6.969 inches
Drift	6.844 inches
Coupling od	8.500 inches
Capacity	0.0472 bbl/ft
Length	±3,900 feet
Setting Depth	±3,900 feet
Life Expectancy	40+ years

The 4 1/2-inch injection tubing will consist of API Standard J-55 (or equivalent) grade carbon steel that engages to the packer assembly via an anchor seal assembly. The injection tubing will be

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exposed to the injected waste stream. Corrosion induced by contact with the waste stream is expected to be very low.

4 1/2-inch, 11.6 lb/ft, J-55, LTC Tubing Specifications are as Follows:

Wall	0.250 inches
id	4.000 inches
Drift	3.875 inches
Coupling od	5.000 inches
Capacity	0.0155 bbl/ft
Length	±2,920 feet
Setting Depth	±2,920 feet
Life Expectancy	20+ years

VI.A.3.b Casing and Tubing Strength Specifications

The casings for proposed wells WDW-447 and WDW-448 (including casing connections) are rated to have sufficient structural strength to withstand, for the design life of each well, the maximum burst and collapse pressures and the maximum tensile stress which may be experienced at any point along the length of casing or tubing. The collapse resistance, internal yield pressure, joint strength and yield strength for the casings and tubing proposed for use in the construction of the UEC injection wells are listed below. The sources of these ratings are the U.S. Steel Oil Country Tubular Goods Tubing & Casing Tables (U.S. Steel, 2014) for the 10 3/4-inch surface casing, 7 5/8-inch long string casing and 4 ½-inch injection tubing.

10 3/4-inch, 40.5 lb/ft, J-55, STC Surface Casing

Burst: 3,130 psi

Collapse: 1,580 psi

Joint Strength: 420,000 lb

Pipe Body Strength: 629,000 lb

7 5/8-inch, 26.4 lb/ft, J-55, LTC Longstring Casing

Burst: 4,140 psi

Collapse: 2,890 psi

Joint Strength: 346,000 lb

Pipe Body Strength: 414,000 lb

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4 1/2-inch, 11.6 lb/ft, J-55, LTC Injection Tubing

Burst: 5,350 psi

Collapse: 4,960 psi

Joint Strength: 162,000 lb

Pipe Body Strength: 184,000 lb

VI.A.3.c Pressures and Structural Loads During Construction, Operation and Closure

During the construction, operation and closure of the proposed injection wells, the casing and tubulars will be subjected to varying external pressures, internal pressures and axial loading. The strings specified in the permit application are designed for the worst case or maximum possible load which could reasonably occur during the drilling, cementing, operation or testing of the wells. The design process evaluated the Collapse, Internal Yield (Burst) and Yield Strength (Tension) for each string of casing or tubing.

Surface Casing

The following calculations use worst case assumptions to determine the maximum pressures and loads for the surface casing string. Of note, the value 0.052 (psi/ft)/(lb/gal) included in the calculations on the following pages is the conversion factor from pounds per gallon (lb/gal) to pounds per square inch per foot (psi/ft).

The collapse pressure used in casing design is the differential of pressure exerted on the outside of the casing to the internal pressure. The maximum pressure differential occurs after the casing has been set and cemented and the shoe has been drilled out to drill the longstring borehole. It is assumed the surface casing was cemented to surface, but that the cement sheath contains a continuous 9.2 pounds per gallon (ppg) mud channel from the casing setting depth (approximately 1,800 feet) to the top of the casing. It is also assumed that circulation is lost while drilling the longstring borehole resulting in a full evacuation of the surface casing.

Surface Casing Collapse Calculations

Depth (ft)	External Pressure (psi)	Internal Pressure (psi)	Differential Pressure (psi)	Calculation
0	0	0	0	9.2 ppg * 0 ft * 0.052 (psi/ft)/(ppg)
1,800	861	0	861	9.2 ppg * 1,800 ft * 0.052 (psi/ft)/(ppg)

The maximum collapse pressure differential of 861 psi occurs at 1,800 feet.

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The burst pressure used in casing design is the differential pressure of the internal fluid forces acting on the pipe less the external fluid forces. The maximum pressure differential occurs after the casing has been set and cemented and the casing is being tested with an applied surface pressure of 1,000 psi per TCEQ guidelines. It is assumed the casing will be full of 9.2 ppg mud. It is assumed the surface casing was cemented to surface, but that the cement sheath contains a continuous 9.2 ppg mud channel from the casing setting depth (approximately 1,800 feet) to the top of the casing.

Surface Casing Burst Calculations

Depth (ft)	Internal Pressure (psi)	External Pressure (psi)	Differential Pressure (psi)	Calculation
0	1,000	0	1,000	(9.2 ppg – 9.2 ppg) * 0 ft * 0.052 (psi/ft)/(ppg) + 1,000 psi
1,800	1,861	861	1,000	(9.2 ppg – 9.2 ppg) * 1,800 ft * 0.052 (psi/ft)/(ppg) + 1,000 psi

The maximum burst pressure differential of 1,000 psi occurs across the entire length of surface casing.

For pipe body and joint strength yield, the maximum tensile load is taken to be the weight of the pipe hanging in air for a worst case basis and neglects the effects of buoyancy. An additional load due to the plug bump pressure (assumed 1,000 psi) against the cross sectional area of the float collar is also added to the weight of the pipe hanging in air.

Surface Casing Tensile Calculations

Depth (ft)	Load (lbf)	Calculation
0	**152,227**	**40.5 lb/ft * 1,800 ft +1,000 psi * π * (10.050 in/2)^2**
1,800	79,327	40.5 lb/ft * 0 ft +1,000 psi * π * (10.050 in/2)^2

The maximum tensile load of 152,227 pound force (lbf) occurs at the surface.

Longstring Casing

The following calculations use worst case assumptions to determine the maximum pressures and loads for the longstring casing string.

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The collapse pressure used in casing design is the differential of pressure exerted on the outside of the casing to the internal pressure. The maximum pressure differential occurs after the casing has been set and cemented, but that the cement sheath contains a continuous 9.2 ppg mud channel from total depth to the top of the casing. It is also assumed cleanout operations result in a full evacuation of the longstring casing.

Longstring Casing Collapse Calculations

Depth (ft)	External Pressure (psi)	Internal Pressure (psi)	Differential Pressure (psi)	Calculation
0	0	0	0	9.2 ppg * 0 ft * 0.052 (psi/ft)/(ppg)
3,900	1,866	0	1,866	9.2 ppg * 3,900 ft * 0.052 (psi/ft)/(ppg)

The maximum collapse pressure differential is 1,866 psi at 3,900 feet.

The burst pressure used in casing design is the differential pressure of the internal fluid forces acting on the pipe less the external fluid forces. The maximum pressure differential occurs during construction activities. It is assumed that the casing is fully cemented to surface with the inclusion of a continuous 9.2 ppg mud channel from surface to 3,900 feet. The casing is full of 9.2 ppg mud and a longstring casing pressure test is being conducted to 1,500 psi per TCEQ guidelines.

Longstring Casing Burst Calculations

Depth (ft)	Internal Pressure (psi)	External Pressure (psi)	Differential Pressure (psi)	Calculation
0	1,500	0	1,500	(9.2 ppg – 9.2 ppg) * 0 ft * 0.052 (psi/ft)/(ppg) + 1,500 psi
3,900	3,366	1,866	1,500	(9.2 ppg – 9.2 ppg) * 3,900 ft * 0.052 (psi/ft)/(ppg) + 1,500 psi

The maximum burst pressure differential is 1,500 psi along the entire length.

For pipe body and joint strength yield, the maximum tensile load is taken to be the weight of the pipe hanging in air for a worst case basis and neglects the effects of buoyancy. An additional load due to the plug bump pressure (assumed 1,000 psi) against the cross sectional area of the float collar is also added to the weight of the pipe hanging in air.

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Longstring Casing Tensile Calculations

Depth (ft)	Load (lbf)	Calculation
0	**141,104**	**26.4 lb/ft * 3,900 ft +1,000 psi * π * (6.969 in/2)^2**
3,900	38,144	40.5 lb/ft * 0 ft +1,000 psi * π * (10.050 in/2)^2

The maximum tensile load is 141,104 lbf at the surface.

Injection Tubing

The following calculations use worst-case assumptions to determine the maximum pressures and loads for the injection tubing string.

The collapse pressure used in tubing design is the differential of pressure exerted on the outside of the casing to the internal pressure. The maximum pressure differential occurs while conducting an annulus test to 1,000 psi with the annulus full to surface with 9.0 ppg inhibited brine and the fluid level in the injection tubing is at 230 feet as the 9.0 ppg brine in the tubing has equalized with the predicted formation pressure of 1,329 psi at 3,070 feet. The injection tubing is set into the packer at approximately 2,920 feet.

Injection Tubing Collapse Calculations

Depth (ft)	External Pressure (psi)	Internal Pressure (psi)	Differential Pressure (psi)	Calculation
0	1,000	0	1,000	9.0 ppg * 0 ft * 0.052 (psi/ft)/(ppg) + 1,000 psi
230	1,108	0	1,108	9.0 ppg * 230 ft * 0.052 (psi/ft)/(ppg) + 1,000 psi
2,920	2,367	1,474	893	1,000 psi + 9.0 ppg * 2,920 ft * 0.052 (psi/ft)/(ppg) – 9.0 ppg * (2,920 ft – 230 ft)* 0.052 (psi/ft)/(ppg)

The maximum collapse pressure differential of 1,107 psi occurs at 230 feet.

The burst pressure used in tubing design is the differential pressure of the internal fluid forces acting on the pipe less the external fluid forces. The maximum pressure differential occurs while injecting the heaviest permitted waste stream (9.16 ppg, 1.1 sp.gr.) at the maximum surface pressure (572 psi) with the annulus full to surface with 9.0 ppg inhibited brine with an annulus surface pressure of zero psi. Note that the annulus must be maintained at 100 psi above injection

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pressure, thus this calculation is overly conservative. The injection tubing is set into the packer at approximately 2,920 feet.

Injection Tubing Burst Calculations

Depth (ft)	Internal Pressure (psi)	External Pressure (psi)	Differential Pressure (psi)	Calculation
0	572	0	572	(9.16 ppg – 9.0 ppg) * 0 ft * 0.052 (psi/ft)/(ppg) + 572 psi
2,920	1,963	1,367	596	(9.16 ppg – 9.0 ppg) * 2,920 ft * 0.052 (psi/ft)/(ppg) + 572 psi

The maximum burst pressure differential of 596 psi occurs at 2,920 feet.

For pipe body and joint strength yield, the maximum tensile load is taken to be the weight of the 2,920 feet of pipe hanging in air (neglecting buoyancy) prior to engaging the packer for a worst case basis.

Injection Tubing Tensile Calculations

Depth (ft)	Load (lbf)	Calculation
0	**33,872**	**11.6 lb/ft * 2,920 ft**
2,920	0	11.6 lb/ft * 0 ft

The maximum tensile load of 33,872 lbf occurs at the surface.

VI.A.3.d Casing and Tubing Safety Factor Calculations

Industry Standards for design safety factors for this application are as follows:
Collapse: 1.0 to 1.125 based on minimum collapse pressures.
Internal Yield (Burst): 1.0 to 1.1 based on minimum yield values.
Tension: 1.8 based on minimum joint strength. 1.5 based on minimum pipe body strength.

The following minimum safety factors are required for each casing string in the proposed injection well.

Collapse:	1.125
Internal Yield (Burst):	1.1
Tension (Joint):	1.8 (API 8rd) to 1.6 (Buttress)
Tension (Pipe Body)	1.5

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The safety factors are calculated by dividing the rated strength of the tubular by the maximum pressure differential (for collapse and burst) or tensile loading.

Calculated Safety Factors

Tubular	Collapse Loading	Burst Loading	Tensile Loading (Joint)	Tensile Loading (Pipe Body)
Surface Casing	1.83	3.13	2.76	4.13
Longstring Casing	1.55	2.76	2.45	2.93
Injection Tubing	4.48	8.98	4.78	5.43

VI.A.3.e Injection Packer

The injection packer for each of the wells will be a Delta P Model 12 (or equivalent), 7 5/8-inch by 4 ½-inch retrievable packer with an anchor seal assembly. The packer will be set at an approximate depth of 2,920 feet to ensure setting in the Injection Zone. The life expectancy of the packer is 20+ years.

VI.A.3.f Tubular Selection and Design Process

The longstring casing and injection tubing proposed for utilization in the construction of the injection wells were selected based on the anticipated downhole conditions present at the project location. The chemical composition, corrosive effects, temperature and density of injected fluids and reservoir brine were considered to ensure proper selection of both longstring casing and injection tubing. Also, the life expectancy of the injection wells (a minimum of 30 years) was also an important consideration in the design of the longstring casing. Surface casing will be composed of carbon steel with more than adequate strength properties to be set and cemented below the base of the lowest underground source of drinking water (USDW) (surface casing set to approximately 1,800 feet). The longstring casing will be composed of carbon steel to approximately 3,900 feet. The tubulars selected for WDW-447 and WDW-448 are consistent with the tubulars that have been successfully used at the UEC La Palangana in situ mining project site (WDW-419) in Duval County, Texas. The La Palangana installation is similar to the proposed new wells in terms of waste fluids and injection parameters.

Casing depths take into account potential lost circulation zones, the USDW and other conditions, known to possibly exist at the UEC site. Injection tubing selection was based on injection rates, volumes and pressure to ensure laminar flow and to minimize friction loss.

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The life expectancy of the tubing and packer is 20 years. Should the tubing or packer become compromised, those items can be removed from the well and replaced. The 4 1/2-inch outer diameter of the tubing was chosen to allow washover clearance should future workover operations warrant.

VI.A.3.g Casing and Tubing Inspection and Preparation

The carbon steel surface casing will be inspected and tested prior to installation via the following methods and procedures: hydrotest to 80 percent of the rated burst characteristics of the tube; electronic inspection - white band 0 to 12.5 percent; API thread inspection; and full-length drift.

The carbon steel longstring casing will be inspected and tested prior to installation via the following methods and procedures: hydrotest to 80 percent of the rated burst characteristics of the tube; electronic inspection - white band 0 to 12.5 percent; API thread inspection; and full-length drift.

The injection tubing will be inspected and tested prior to installation via the following methods and procedures: hydrotest to 80 percent of the rated burst characteristics of the tube; electronic inspection - white band 0 to 12.5 percent; API thread inspection; and full-length drift.

VI.A.4 Completion Interval and Type of Completion

The proposed wells will be completed through perforations within the longstring casings and adjacent to the proposed Het Sand Injection Interval sands. The proposed Injection Zone is in the Lower Anahuac and Upper Frio Formations in the subsurface interval between 2,940 and 3,900 feet BGL. The proposed Injection Interval within the Het Sand will be within the approximate subsurface depths from 3,070 to 3,900 feet BGL.

VI.A.5 Centralizers

The 10 3/4-inch, 40.5 lb/ft, J-55 (or equivalent), STC carbon steel casing will be run from surface to approximately 1,800 feet. Centralizers will be run as follows:

1 – Center of shoe joint on stop ring

1 – Center of joint above float collar on stop ring

1 – Across collar on joint above float collar

21 – Across every other collar to surface

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The 7 5/8-inch, 26.4 lb/ft, J-55 (or equivalent), LTC carbon steel casing will be run from surface to approximately 3,900 feet. Centralizers will be run as follows:

1 – Center of shoe joint on stop ring
1 – Center of joint above float collar on stop ring
1 – Across collar on joint above float collar
10 – Spaced evenly from 3,900 ft to 3,000 ft
1 – Center of joint below stage collar at 3,000 ft
1 – Center of joint above stage collar at 3,000 ft
37 – Spaced evenly from 3,000 ft to surface

VI.A.6 Annulus Fluid

The annulus fluid placed in the well annulus will be inhibited to minimize corrosion on the external side of the tubing and internal side of the longstring casing. The annulus fluid will be composed of an approximate 9.0 ppg inhibited brine containing corrosion inhibitor, oxygen scavenger and biocide. The annulus pressure will be maintained at a level at least 100 psi greater than the pressure on the injection tubing.

VI.A.7 Drilling Program

A preliminary injection well drilling and completion program consistent with pertinent federal and state regulations is outlined below. The basic downhole well design provides for drilling, completion and workovers to a depth of approximately 3,900 feet. UEC will ensure all phases of well construction and all phases of any well workover shall be supervised by a qualified individual knowledgeable and experienced in practical drilling engineering and familiar with the special conditions and requirements of injection well construction in accordance with 30 TAC §331.62(9). The qualified individual will act under the responsible charge of a licensed, Professional Engineer with current registration pursuant to the Texas Engineering Practice Act. ***Any material of equipment used in the actual construction of the proposed well that differs from the original permit technical application construction specifications shall equal or exceed the performance criteria specified in the original permit technical application.***

Injection into the Het Sand Injection Interval will be enabled through perforations in the longstring casing. The perforations will be positioned as needed to establish hydraulic communication with the reservoir. Before stimulating the formation, the bottomhole pressure and bottomhole temperature will be measured as close to the completion depth as practical to obtain these initial reservoir conditions. In addition, the static fluid level in the well will be determined.

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After determination of the initial static bottomhole pressure, the wellbore will be thoroughly cleared of drilling fluid and a reservoir fluid sample will be collected. The perforated interval will be stimulated, as required, to break any residual mud used when drilling and enhance hydraulic connection with the reservoir.

The final phase of the completion will involve installation of a retrievable injection packer and the running of the 4 1/2-inch injection tubing. In addition, post-assembly mechanical integrity testing consisting of an annulus pressure test (APT), a baseline temperature log, a radioactive tracer survey (RTS) and a spinner survey (or other flow distribution survey) will be performed.

Injectivity tests will be conducted following well stimulation (if required) and completion to establish the initial reservoir parameters before injection operations commence. Injection tests will provide estimates of the permeability and thickness of the Injection Zone. Following the injectivity test, the well will then be closed in for a pressure decay test. Bottomhole pressure and surface pressure will be recorded during the flowing and shut in periods. The results of these tests will be utilized to calculate average reservoir pressure, permeability and volume.

Preliminary Injection Well Drilling and Completion Program

1. Location Preparation and Conductor Installation:

    - Survey and stake location as required.
    - Prepare location access, grade, fresh water supply, spill containment (ditches, dikes, etcetera) and other preparations as required.
    - Set 16-inch outside diameter (od), 65 lb/ft, H-40 (equivalent or better), plain-end beveled (PEB), carbon steel conductor pipe to approximately 50 feet below ground level and cement in place.
    - Prepare well cellar as required.

2. Move in drilling rig and equipment and rig up.

3. Surface Borehole and 10 3/4-Inch Casing Installation:

    - Notify TCEQ 24 hours before commencement of drilling operations.
    - Drill a 14 3/4-inch hole to approximately 1,800 feet using a fresh water and gel mud (proposed mud weight – 9.2 lb/gal). Hole should be drilled with drilling fluid under laminar flow conditions and with the appropriate fluid loss additives. Short trip, as required, to wipe and clean the borehole. Take deviation surveys every 100-foot intervals to 500 feet, then every 300 feet to casing setting point.

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14 3/4-INCH BOREHOLE DRILLING LOST CIRCULATION CONTINGENCY PLAN

If circulation is lost while drilling the 14 3/4-inch borehole, lost circulation material pills will be pumped to reestablish circulation. Depending upon the severity of lost circulation encountered, lost circulation material may need to be blended with the drilling fluid in concentrations dictated by hole conditions to maintain circulation to the 10 3/4-inch casing point. Should lost circulation occur while drilling from the base of conductor to the 10 3/4-inch surface casing point, paper, cottonseed hulls or other forms of standard lost circulation material may be used to remedy the loss condition.

14 3/4-INCH BOREHOLE DRILLING OVER PRESSURED ZONE CONTINGENCY PLAN

If an overpressure zone is encountered while drilling the 14 3/4-inch borehole, pump mud down the drill pipe at an increased rate and higher density. Keep pumping mud down the drill pipe at an increased rate until the well stops flowing.

14 3/4-INCH BOREHOLE DEVIATION AND CONTINGENCY PLAN

The maximum desirable borehole deviation will be approximately 1° per 1,000 feet of depth with a maximum recommended deviation of no more than 2° per 100 feet (to minimize dogleg severity) at any point in the borehole. If the maximum recommended deviation is exceeded, an evaluation will be made to determine whether remedial action is necessary. Remedial action may include changing the bottomhole assembly, underreaming the borehole, running a hole wiper assembly, or under a worst-case scenario, plugging back the well or appropriate borehole section and re-drilling with appropriate bottomhole assembly to put the borehole back within acceptable deviation limits.

- Circulate and condition hole and mud to optimum properties for logging. Pull out of hole and stand back drilling assembly.
- Rig up and run logs. Open hole logs of 14 3/4-inch open hole to include Spontaneous Potential, Dual Induction Resistivity, Natural Gamma Ray, Compensated Neutron, Litho-Density and Multi-Arm Integrated Borehole Caliper logs from TD to surface.
- Trip back in hole with drilling assembly. Circulate and condition hole and mud to optimum properties for running casing. Pull out of hole and stand back drilling assembly while laying down components that will not be used to drill the 9 7/8-inch hole section.
- Run 10 3/4-inch od, 40.5 lb/ft, J-55 (or equivalent), STC, carbon steel surface casing to approximately 1,800 feet. Use float shoe and float collar with stab-in adapter. Threadlock float shoe, float collar and next joint up. Run centralizers as follows:

  1 – Center of shoe joint on stop ring

  1 – Center of joint above float collar on stop ring

  1 – Across collar on joint above float collar

  21 – Across every other collar to surface

10 3/4-inch, 40.5 lb/ft, J-55, STC Casing Specifications are as Follows:

Wall	0.350 inches
id	10.050 inches
Drift	9.894 inches
Coupling od	11.750 inches
Collapse	1,580 psi
Burst	3,130 psi

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Pipe Body Strength	629,000 lb
Joint Strength	420,000 lb
Capacity	0.0981 bbl/ft

- Circulate and condition hole and mud to establish optimum properties commensurate with good cementing practices.
- Notify TCEQ 24 hours before commencement of cementing operations.
- Cement 10 3/4-inch od surface casing from TD to surface using the pump and plug method with a lead slurry of 820 sacks Halliburton Extendacem System Cement (or equivalent) with 0.35% HR-800 (cement retarder) and 0.1% FE-2 followed by a tail slurry of 425 sacks Halliburton SBM Halcem System Cement (or equivalent) with 0.5% HR-800. Actual cement volume pumped to be based upon actual hole volume calculated from multi-arm caliper log plus 20% excess over caliper indication within the limit of tool extent and 50% excess over maximum caliper indication in washouts beyond the extent of the caliper tool. Mix and pump lead slurry until cement returns are obtained at surface. If specified cement blends are not available at the time of construction, equivalent cement blends will be substituted. Bump plug with no more than 1,500 psi.

Slurry Properties	**Lead Cement**	**Tail Cement**
Slurry Weight:	12.0 ppg	15.0 ppg
Slurry Volume:	1.918 cu. ft./sk	1.06 cu. ft./sk
Water required	11.02 gal/sk	5.06 gal/sk

10 3/4-INCH CASING CEMENTING LOST CIRCULATION CONTINGENCY PLAN

If circulation is lost while performing the lead cementing operation for the 10 3/4-inch casing, reduce cementing pump rate to between 1/3 and ½ of the mixing and pumping rate to reduce equivalent circulating density (ECD) and continue mixing and pumping lead slurry to attempt to reestablish returns. Should lost circulation occur while mixing, pumping and/or displacing the tail slurry, continue mixing, pumping and/or displacing the tail slurry as required.

After completion of the cement job, the operator will drill out the float equipment and conduct cement bond and/or temperature logging to determine the top of cement. The operator will then evaluate options to obtain sufficient cementing. If necessary, the operator will perforate and squeeze to complete cementing. Once sufficient isolation has been demonstrated, no further action should be required since the 10 3/4-inch surface casing will be behind cemented 7 5/8-inch longstring casing following 7 5/8-inch longstring casing installation.

Should cement fallback occur after completion of cementing operations, the top of cement will be identified from a temperature log or the post drill out bond log. If necessary, the casing would then be cemented externally (top job) using thin tubing to ensure sufficient cementing is accomplished.

- Center the casing, wash out the 16-inch riser and flowline to rig shaker tank. Do not move the casing for a minimum of 24 hours.
- Run a temperature log from surface to float collar within 8 hours after cementing.
- Cut off 10 3/4-inch surface casing (rough cut).
- Install 10 3/4-inch slip-on-weld (SOW) by 11-inch, 3,000 psi casing head and nipple up 11-inch hydraulic blowout preventer (BOP) stack.

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- Go in the hole with a 9 7/8-inch bit to the top of the float collar. Circulate the hole clean. Pull the bit out of the hole and go back in the hole to the float collar with a scraper for the 10 3/4-inch casing. Circulate the hole clean and pull out of the hole.
- Run Cement Bond with Variable Density Log from float collar to surface after required wait-on-cement (WOC) period.
- Pressure test the 10 3/4-inch surface casing and BOP stack to 1,000 psi for a minimum of 30 minutes.

4. Long String Borehole and 7 5/8-Inch Casing Installation:

- Drill out cement and shoe. TCEQ regulations require that at least one of the two wells in this permit application be full-hole cored. Exact core depths will be determined by wellsite geologist. For the well that is to be cored, drill 9 7/8-inch borehole with water based mud (aerated as required) to a core point in the Confining Zone at approximately 2,780 feet. Cut a 30-foot core. After coring, ream and drill to the next core point in the Injection Zone at approximately 3,720 feet (or as required for lithologic data). Cut a 30-foot core. After obtaining core, ream core hole and continue drilling to casing point at 3,900 feet. For the well that is not cored, drill a 9 7/8-inch hole from the base of the surface casing to 3,900 feet.
- Note: Hole should be drilled with drilling fluid under laminar flow conditions and with appropriate fluid loss control. Obtain inclination surveys every 300 feet from base of surface casing to total well depth, unless hole conditions indicate concerns for stuck pipe. Hole angle will be recorded during open hole logging operations.

9 7/8-INCH BOREHOLE DRILLING LOST CIRCULATION CONTINGENCY PLAN

If circulation is lost while drilling the 9 7/8-inch borehole, lost circulation material pills will be pumped to reestablish circulation. Depending upon the severity of lost circulation encountered, lost circulation material may need to be blended with the drilling fluid in concentrations dictated by hole conditions to maintain circulation to the casing point.

9 7/8-INCH BOREHOLE DRILLING OVER PRESSURED ZONE CONTINGENCY PLAN

If an overpressured zone is encountered while drilling the 9 7/8-inch borehole, pick up kelly such that any tool joints that could be opposite the BOP sealing elements are above the elements. Stop pumps and check for flow. Close BOP pipe rams and measure shut in drill pipe and casing pressures. Calculate control mud weight and weight up mud system accordingly. Pump control weight mud down the drill pipe at slow pump rate and higher density while maintaining casing pressure with choke to minimize further influx and maintaining casing pressure below burst rating of casing. Keep pumping mud down the drill pipe at the slow pump rate until the well stops flowing.

9 7/8-INCH BOREHOLE DEVIATION AND CONTINGENCY PLAN

The maximum desirable borehole deviation will be approximately 1° per 1,000 feet of depth with a maximum recommended deviation of no more than 2° per 100 feet (to minimize dogleg severity) at any point in the borehole. If the maximum recommended deviation is exceeded, an evaluation will be made to determine whether remedial action is necessary. Remedial action may include changing the bottomhole assembly, underreaming the borehole, running a hole wiper assembly, or under a worst-case scenario, plugging back the well or appropriate borehole section and re-drilling with the appropriate bottomhole assembly to put the borehole back within acceptable deviation limits.

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- Circulate and condition hole and mud to optimum properties for logging. Pull out of hole and stand back drilling assembly.
- Notify TCEQ 24 hours before commencement of logging operations.
- Rig up and run logs. Open hole logs of 9 7/8-inch borehole to include Spontaneous Potential, Dual Induction Resistivity, Natural Gamma Ray, Litho-Density, Compensated Neutron, Microlog, Formation Microscanner (high resolution dipmeter) as required, and Multi-Arm Integrated Borehole Caliper (with Directional Telemetry) logs from TD to base of surface casing.
- Circulate and condition hole and mud in preparation for running casing.
- Rig up and run 7 5/8-inch longstring casing as follows: 3,900 ft of 7 5/8-inch, 26.4 lb/ft, J-55, LTC carbon steel longstring casing. Install float shoe on bottom and float collar one joint up from the shoe. Threadlock float shoe and float collar. Place DV tool at approximately 3,000 ft and threadlock. Use SealLube on non-threadlocked connections. Run centralizers as follows:

  1 – Center of shoe joint on stop ring

  1 – Center of joint above float collar on stop ring

  1 – Across collar on joint above float collar

  10 – Spaced evenly from 3,900 ft to 3,000 ft

  1 – Center of joint below stage collar at 3,000 ft

  1 – Center of joint above stage collar at 3,000 ft

  37 – Spaced evenly from 3,000 ft to surface

7 5/8-inch, 26.4 lb/ft, J-55, LTC Casing Specifications are as Follows:

Wall	0.328 inches
id	6.969 inches
Drift	6.844 inches
Coupling od	8.500 inches
Collapse	2,890 psi
Burst	4,140 psi
Pipe Body Strength	414,000 lb
Joint Strength	346,000 lb
Capacity	0.0472 bbl/ft

- Circulate and condition hole and mud to establish optimum properties commensurate with good cementing practices.
- Notify TCEQ 24 hours before commencement of cementing operations.
- Cement 7 5/8-inch od longstring casing from TD to surface in two stages as follows:

First Stage Slurry: 185 sacks Halliburton Halcem System Cement (or equivalent) with 0.4% HR-800 from TD to 3,000 (±) feet. Circulate for a minimum of 12 hours between first and second stage cementing until surface samples set up.

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Slurry Properties	Halcem
Slurry Weight:	16.0 ppg
Slurry Volume:	1.479 cu. ft./sk
Water required	5.88 gal/sk

Second Stage Lead Slurry: 340 sacks of Halliburton Extendacem System Cement (or equivalent) with 0.35% HR-800 and 0.1% FE-2.

Second Stage Tail Slurry: 100 sacks of Halliburton Halcem System Cement (or equivalent) with 0.35% HR-800 and 0.1% FE-2.

Slurry Properties	Lead Cement	Tail Cement
Slurry Weight:	12.0 ppg	15.0 ppg
Slurry Volume:	1.918 cu. ft./sk	1.06 cu. ft./sk
Water required	11.02 gal/sk	5.06 gal/sk

Actual cement volume pumped will be based upon actual hole volume calculated from multi-arm caliper tools plus 20% excess over caliper indication within the limit of tool extent and 50% excess over maximum caliper indication in washouts beyond the extent of the caliper tool. If specified cement blends are not available at time of construction, equivalent cement blends will be substituted.

7 5/8-INCH CASING CEMENTING LOST CIRCULATION CONTINGENCY PLAN

If circulation is lost while performing the first stage of the 7 5/8-inch cementing job prior to releasing the cementing plug, reduce the pumping rate to ½ the scheduled rate to reduce ECD and attempt to regain circulation. However, if indications are that returns can be reestablished, it will be critical to release the pump-down cementing plug after pumping the exact volumes of cement and spacer as originally planned. If the indications are that circulation cannot be regained, then do not release the pump-down cementing plug. Circulate the well at ½ the actual circulation rate to clear the 7 5/8-inch casing of cement (either into loss zone or from the well). If circulation is regained, then the remaining cement will need to be circulated from the wellbore and the first stage cementing operation attempted again after allowing an appropriate curing period (to allow the cement in the loss zone to cure). Continue to circulate until ready to pump repeat first stage.

If circulation is lost after the cementing pump-down plug has been released, then the cement job is totally committed as planned volumetrically. Reduce the cementing pump-down plug displacement rate to ½ the rate being pumped prior to losing circulation to attempt to regain circulation. When the plug lands in the float collar, drop stage tool free-fall opening device, open tool, circulate the well as planned and look for evidence of excess cement or spacer in the returns. Follow the plans for completion of second and third stage cementing operations.

After completion of the second stage cement job, the operator will drill out the float equipment and conduct cement bond and/or temperature logging to determine the top of cement from the first and second stage cementing operations. The operator will then evaluate options to obtain sufficient cementing. If necessary, the operator will perforate and squeeze to complete cementing of the first or second stage. Once sufficient isolation has been demonstrated, the squeeze perforations (depending upon location relative to packer setting depth) may be isolated by means of 9 5/8-inch casing patches.

Should lost circulation or fallback occur on the second stage alone, the top of cement will be identified from a temperature log or the post-drillout bond log. If necessary, the casing would then be cemented externally (top job) using thin tubing to ensure sufficient cementing is accomplished.

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- Displace differential valve (DV) tool closing plug with fresh water. Wash out BOP and casing head. Center the casing and do not move the casing for a minimum of 24 hours.
- Run a temperature log within 12 hours after cementing from top of stage tool to surface.
- Cut off 7 5/8-inch longstring casing (rough cut) and nipple down BOP. Release drilling rig.

5. Het Sand Injection Interval Completion:

    - Move in and rig up workover rig. Cut off 10 3/4-inch SOW by 11-inch, 3,000 psi casing head.
    - Install 7 5/8-inch SOW by 7 1/16-inch, 3,000 psi tubing head.
    - Nipple up 7 1/16-inch double ram BOP.
    - Go in hole with 6 ¾-inch bit and drilling assembly on workstring.
    - Drill out the multi-stage cementing tool at approximately 3,000 feet and clean out the 7 5/8-inch od longstring casing to plug back total depth (PBTD). Circulate hole clean.
    - Pull the bit out of the hole and go back in the hole to the float collar with a scraper for the 7 5/8-inch casing.
    - Circulate the hole clean and pull the scraper out of the hole.
    - Rig up and run Cement Bond with Variable Density/Gamma Ray/Casing Collar Locator Log, Baseline Casing Inspection and Temperature logs from TD to surface.
    - Pressure test 7 5/8-inch od longstring casing to 1,500 psi for a minimum of 30 minutes. (a test of the full longstring casing to 1,500 psi for 30 minutes is a TCEQ-required pressure test).
    - Run in hole with perforating guns on wireline and perforate the Het Sand in selected intervals of the Injection Interval as determined from logging and coring operations using guns loaded at a minimum of four shots per foot. Run GR/CCL correlation log for each perforating run.
    - Using wireline instruments, obtain initial static bottomhole pressure (BHP) at top of uppermost perforated interval (which will serve as future BHP reference datum). Perform gradient survey and determine static fluid level in the well.
    - Run in hole with 2 7/8-inch swabbing assembly on swab line. Swab formation water until fluid has cleaned up.

6. Injection Zone Stimulation:

    - Perform injection performance test. Perform formation stimulation as required.
    - Evaluate Het Sand injection performance after stimulation.

7. Injection Packer Installation:

    - Rig up a setting tool assembly and run 7 5/8-inch by 4 1/2-inch Delta P Model 12 (or equivalent) injection packer with one joint of mule-shoed tail pipe below the packer. Set the top of the packer at approximately 2,920 feet.
    - Pre-displace the 7 5/8-inch casing with 9.0 ppg inhibited brine.
    - Pull the packer setting tool out of the hole and go back in the hole with a test seal assembly for the packer. Set the test seal in the packer and run a preliminary annulus pressure test to 672 psi for a minimum of 30 minutes.

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- Release the test seal from the packer and pull out of the hole while laying down the workstring.

8. Injection Tubing and Tree Installation:

    - Rig up and run 4 1/2-inch, 11.6 lb/ft, J-55, LTC (or equivalent) injection tubing with Delta P anchor seal assembly (or equivalent) set to appropriate packer depth above. Verify final tubing space-out requirements.

4 1/2-inch, 11.6 lb/ft, J-55, LTC Injection Tubing Specifications are as Follows:

Wall	0.250 inches
id	4.000 inches
Drift	3.875 inches
Coupling od	5.000 inches
Collapse	4,960 psi
Burst	5,350 psi
Pipe Body Strength	184,000 lb
Joint Strength	162,000 lb
Capacity	0.0155 bbl/ft

- Displace 7 5/8-inch by 4 1/2-inch annulus with 9.0 ppg brine with a corrosion inhibitor and oxygen scavenger.
- Engage seal assembly into receptacle above the packer at 2,920 feet and space out tubing as required with hanger in tubing head.
- Top off annulus with 9.0 ppg brine with a corrosion inhibitor and oxygen scavenger.
- Nipple down BOP and install tubing hanger, packoff flange and tree valves.
- Conduct preliminary annulus pressure test to 1,000 psi for 30 minutes.
- After successful completion of preliminary annulus pressure test, release well service unit.
- Move in and rig up a coiled tubing unit, nitrogen pumping equipment and storage tanks.
- Run the coiled tubing in the hole and jet the well with nitrogen. Recover the work fluid from the wellbore and continue jetting the well to recover formation fluid samples for analysis. Collect at least two drums of formation fluid for use in compatibility testing. Release coiled tubing and nitrogen equipment. Allow a 72-hour wellbore stabilization period prior upcoming reservoir testing and mechanical integrity testing.

9. Injectivity/Falloff Test:

    - Obtain static bottomhole pressure at appropriate gauge reference datum depending upon formation selected for disposal horizon. Make gradient stop checks to determine static fluid level and wellbore fluid gradient profile.
    - Rig up and run injection test at 200 gpm using filtered water as required. Monitor pressure and rates. Perform falloff test.

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10. Mechanical Integrity Test:

    - Notify TCEQ at least 24 hours in advance.
    - Rig up and test annulus to 672 psi for 30 minutes. Maximum allowable pressure loss will be 5 percent of applied pressure.
    - Perform baseline differential temperature survey.
    - Perform RTS.
    - Perform flow profile survey.

11. Complete piping.

12. Within 90 days following the date well construction has been completed, UEC will submit a well completion report to the TCEQ (prepared by a licensed, Professional Engineer with current registration pursuant to the Texas Engineering Practice Act, who is knowledgeable and experienced in practical drilling engineering and who is familiar with the special conditions and requirements of injection well construction) that documents all phases of well construction and demonstrates the injection well has been constructed in accordance with the plans submitted with the permit technical application and 30 TAC §331.62.

13. Place well online after obtaining TCEQ certification of well and pre-injection facility construction.

VI.A.8 Cementing Procedures

Historical materials performance, discussions with vendors, past performance records and materials brochures were also considered when selecting the cementing materials to be used in constructing the proposed injection wells. Cementing will be by the pump and plug method for the surface casing and by the pump and plug method in combination with staging for the longstring casing. Cementing recommendations prepared by Halliburton Energy Services for the proposed wells are included in in Appendix C. Cement information, additives, quantities (fill intervals) and additional information follow:

16-inch Conductor Casing Cement: Cemented to surface.

10 3/4-inch Surface Casing Cement:

The surface casing will be cemented in a single stage using approximate lead and tail cement slurries of slightly different compositions for the proposed wells as follows:

> **Lead:** 820 sacks Halliburton Extendacem System Cement (or equivalent) with 0.35% HR-800 (cement retarder) and 0.1% FE-2 circulated to surface mixed at 12 lb/gal, 1.918 ft^3/sk yield, 11.02 gal H_2O/sk. To be followed by

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Tail: 425 sacks Halliburton SBM Halcem System Cement (or equivalent) with 0.5% HR-800 mixed at 15 lb/gal, 1.06 ft^3/sk yield, 5.06 gal H_2O/sk.

7 5/8-inch Surface Casing Cement:

The longstring casing will be cemented in two stages. The first stage will be pumped to fill the casing-borehole annular region with cement from the depth of the float shoe at approximately 3,900 feet to the stage tool located at approximately 3,000 feet. The second stage will be pumped to fill the casing-borehole annular region with cement from the stage tool to surface. The appropriate cement types and compositions are as follows:

1st Stage: 185 sacks Halliburton Halcem System Cement (or equivalent) with 0.4% HR-800 mixed at 16 lb/gal, 1.479 ft^3/sk yield, 5.88 gal H_2O/sk

2nd Stage: **Lead:** 340 sacks of Halliburton Extendacem System Cement(or equivalent) with 0.35% HR-800 and 0.1% FE-2 mixed at 12 lb/gal, 1.918 ft^3/sk yield, 11.02 gal H_2O/sk.

Tail: 100 sacks of Halliburton Halcem System Cement(or equivalent) with 0.35% HR-800 and 0.1% FE-2 mixed at 15 lb/gal, 1.06 ft^3/sk yield, 5.06 gal H_2O/sk.

Auxiliary Cementing Equipment:

Surface Casing:
- 1 – 10 3/4-inch float shoe
- 1 – 10 3/4-inch float collar

Longstring Casing:
- 1 – 7 5/8-inch float shoe
- 1 – 7 5/8-inch float collar
- 1 – 7 5/8-inch stage cementing collar
- 1 – 7 5/8-inch cement basket

If the specified cement blends are not available at time of construction, equivalent cement blends will be substituted. Appropriate borehole conditioning fluids will be pumped and circulated prior to pumping the cement. The calculated system excess cement volume will equal a minimum of 20% and will be applied to the lead slurry only. Actual cement volume pumped to be based upon actual hole volume calculated from a multi-arm caliper log plus a minimum of 20% excess. If the multi-arm caliper cannot measure the diameter of the hole over an interval, then the minimum

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amount of cement for that interval shall be a volume calculated to be equivalent to 150% of the space between the casing and the maximum measurable diameter of the caliper

VI.A.9 Logging Procedures

During the drilling and construction of the injection wells, appropriate logs and tests will be run to determine or verify the depth, thickness, porosity, permeability, rock type and salinity of any entrained fluids in all relevant geologic units to ensure conformance with applicable regulations, and to establish accurate baseline data against which future measurements may be compared.

Following is a list of the various logging which will be performed on the open and cased holes of the injection wells. Information on coring and testing plans is also included. Logs and tests will be interpreted by the service company processing the logs or performing tests or by other qualified persons.

VI.A.9.a Logging Procedures for Surface Casing Hole

The following logs will be run in the 14 3/4-inch surface casing borehole and in the 10 3/4-inch surface casing:

14 3/4-inch Open Hole (before casing is installed)

Resistivity (Dual Induction), Spontaneous Potential, Natural Gamma Ray, Compensated Neutron, Litho-Density and Multi-Arm Integrated Borehole Caliper;

10 3/4-inch Cased Hole (after casing is set and cemented)

Cement Bond with Variable Density Log, Casing Collar Locator and Temperature Log.

VI.A.9.b Logging Procedures for Longstring Casing Hole

The following logs will be run in the 9 7/8-inch borehole and in the 7 5/8-inch longstring casing:

9 7/8-inch Open Hole (before casing is installed)

Resistivity (Dual Induction), Spontaneous Potential, Natural Gamma Ray, Compensated Neutron (porosity log), Litho-Density (porosity log) and Microlog Formation Microscanner (presentation to be obtained from this log include: fracture identification, integrated borehole caliper and directional presentation);

7 5/8-inch Cased Hole (after casing is set and cemented)

Temperature Log, Cement Bond with Variable Density Log, Natural Gamma Ray, Casing Collar Locator, Baseline Casing Inspection Log and Inclination Survey.

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VI.A.9.c Injection Zone and Confining Zone

The permitted depths for the Injection Zone are approximately 2,940 to 3,900 feet BGL in WDW-447 and approximately 3,060 to 3,900 feet BGL in WDW-448. The permitted depths for the Confining Zone are approximately 2,700 to 2,940 feet BGL in WDW-447 and approximately 2,800 to 3,060 feet BGL in WDW-448.

VI.A.9.c.i Full Hole Cores

A full hole core (30-foot total core length) will be collected from the Anahuac Formation (in the Confining Zone) during the drilling of one of the proposed injection wells. Full hole cores (30-foot core lengths) will also be collected from the Injection Zone (in the Het Sand) during the drilling of one of the proposed injection wells. During the drilling of the cores, well coring depths may be adjusted to ensure that the depths targeted for coring are representative of the impermeable strata of the Confining Zone and the permeable strata of the Injection Zone. If full-hole coring is not feasible or adequate core recovery is not achieved, sidewall cores will be recovered in the impermeable strata of the lowermost overlying Confining Zone and in the permeable strata of the Injection Zone for analysis. Core analysis shall include a determination of permeability, porosity, bulk density, Poisson's ratio, formation compressibility and other necessary tests.

VI.A.9.c.ii Formation Fluid Samples

Formation fluid samples will be obtained from one of the proposed injection wells during completion operations. The fluid samples will be analyzed for physical, chemical and radiological characteristics in accordance with 30 TAC §331.62(a)(8) and 30 TAC §331.121(a)(2)(H).

VI.A.9.c.iii Compatibility Testing

Formation fluid samples will be used to test the compatibility of the formation fluids and minerals of both the Injection Zone and the Confining Zone with the injected wastes to demonstrate that the waste stream and its anticipated reaction products will not alter the permeability, thickness, or other relevant characteristics of the Confining or Injection Zones.

VI.A.9.d Well Mechanical Integrity Testing Procedures

To demonstrate mechanical integrity of the wellbores, formal procedures will be developed based upon actual depths and data obtained during drilling and completion operations.

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VI.A.9.d.i Pressure Test with Liquid or Gas

The monitored annulus will be pressure tested to 672 psi for 30 minutes (100 psi above the maximum requested surface injection pressure of 572 psi). Maximum allowable pressure loss will be five percent of the applied pressure.

VI.A.9.d.ii Radioactive Tracer Survey

An RTS will be run to ensure that all injected fluids are entering the Injection Interval through the perforated completion and that no fluids are moving upward behind the casing such that they would be a hazard to USDW.

VI.A.9.d.iii Temperature or Noise Log

A Temperature or Noise Log will be run from total depth (±3,900 feet) to surface during well completion to establish a baseline for the initial condition of the well.

VI.A.10 Well Stimulation Program

An injection test will be performed to evaluate the need for a stimulation. Should a stimulation be required, a mud acid treatment program will be pumped utilizing coiled tubing to distribute the acid across the completed interval. The main intent of the stimulation is to remove any residual drilling damage and achieve suitable injection capacity and injectivity parameters.

VI.A.11 Falloff Testing

After the wells have been completed and fluid level in the wells has stabilized, the static bottomhole pressure and temperature will be collected using a downhole pressure gauge set immediately above the perforated interval. The preferred Injection Intervals and perforated intervals will be determined from the open hole logs run on the 9 7/8-inch borehole. Gradient stop checks will be performed to identify fluid level and wellbore fluid gradient profile in the well at the time of static bottomhole pressure and temperature measurement.

Following is a description of the proposed injectivity test procedures which will be followed to determine the well capacity and reservoir characteristics. Analysis of the data will follow the current falloff test analysis guidelines established by the United States Environmental Protection Agency (USEPA) and the TCEQ. Reservoir characteristics determined by the injectivity test will include reservoir fluid pressure, transmissibility, permeability, faulting or other boundaries, evidence of dual porosity, skin factor, completion anomalies and other physical characteristics of the reservoir. A conservative estimate of the fracture pressure has been included in Section VII.A.5.

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1. Rig up a wireline lubricator containing calibrated downhole surface recording pressure gauge surface readout (SRO) tool to the proposed injection wells. Obtain atmospheric pressure readings with SRO in lubricator and verify tool calibration.
2. Open the well's crown valve and record surface shut in pressure (if any) with SRO for five minutes. Run in hole with SRO in the proposed wells to a depth immediately above the perforated Injection Interval.
3. Obtain static bottomhole pressure and temperature data at the top of the uppermost perforated interval in the proposed well for no less than one hour.
4. Initiate injection of non-hazardous fluid (2% KCl or equivalent KCl substitute) at 200 gallons per minute (maximum requested injection rate). Monitor pressure buildup response for approximately 12 hours or until reaching steady state. Injection testing may be concluded earlier if steady state is achieved.
5. Cease injection and shut in the proposed wells. Close flowline valves at the pumps and at the wellhead. Run falloff test for 24 hours (or until bottomhole pressures have stabilized and data are in the infinite-acting, radial flow period).
6. Upon completion of the injection/falloff test in the proposed well, retrieve SRO while making five-minute gradient stops every 1,000 feet from the nearest 1,000-foot interval to surface.
7. With the SRO tool in the lubricator, close the crown valve.

VI.A.12 Wellhead and Annulus Monitoring System Drawings

Figure VI-2 is a diagram of the proposed injection wellhead and injection tree for the proposed injection wells. The injection wellhead areas will have secondary containment to collect and contain spills, leaks or onsite storm water. Any liquids collected in the secondary containment surrounding the wellhead will be returned to the surface pretreatment facilities for subsequent injection. Figure VI-3 is a diagram of the proposed annulus monitoring system for the proposed injection wells.

VI.A.13 Compatibility Testing

Proposed wells WDW-447 and WDW-448 will be constructed using carbon steel components (tubulars, wellhead equipment, packers) and conventional cementing products similar to those used in the construction of WDW-419. Given the acceptable waste-to-well construction component compatibility history of the WDW-419 injection well and the cements selected for utilization, no compatibility problems are anticipated in association with the proposed injection wells.

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The materials of construction that will be in contact with the injectate include the injection tubing, packer, long string casing below the packer, and the cement around the long string casing in the Injection Interval. The injection tubing proposed for use in the wells is 4 ½-inch, 11.6 lb/ft, J-55, LTC carbon steel. The injection packer proposed for use in the wells is a Delta P Model 12 retrievable packer constructed of carbon steel (if the Delta P Model 12 packer is not available at the time of construction, an equivalent packer will be used). The long string casing used in the wells and in contact with the injectate is 7 5/8-inch, 26.4 lb/ft, J-55, LTC carbon steel. The cement used in the wells for the long string cementing across the Injection Zone is a conventional premium cement (with additives) that is commonly used in applications for oil wells, gas wells and disposal wells.

VI.A.14 Completion Report

Prior to commencement of construction of the proposed injection wells, and in accordance with 30 TAC §331.62(a)(10), UEC will notify the TCEQ (Austin headquarters and Region 14) at least 30 days in advance of commencing drilling operations of the well. UEC will also notify the TCEQ (Austin headquarters and Region 14) at least 24 hours prior to beginning drilling operations. TCEQ representatives will be made aware of scheduling and will be provided an opportunity to witness all cementing of casing strings, logging and testing. TCEQ representatives will be given at least 24-hour notice before each activity in order that a representative of the TCEQ may be present to witness these activities.

In accordance with 30 TAC §331.65(b)(1), within 90 days after completion of the proposed injection well, UEC will submit a Completion Report to TCEQ which documents the construction and testing activities associated with the proposed injection well. For purposes of this discussion, completion is defined as that point when both 1) final mechanical integrity has been successfully demonstrated and 2) all required ambient pressure monitoring activities have been completed. The Completion Report will include a surveyor's plat providing the exact location and the latitude and longitude of the completed injection well. The Completion Report will also include a certification that a notation has been made on the deed to the UEC property (or on some other instrument which is normally examined during title search) stating (1) the surveyed location of the well, (2) the well permit number and (3) the permitted waste streams.

The Completion Report will be prepared and sealed by a licensed Professional Engineer and/or licensed Professional Geoscientist with current registration under the Texas Engineering Practice Act or Texas Geoscience Practice Act. UEC will include the following information in the Completion Report for each of the proposed injection wells:

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1. Actual as-built drilling and completion data on the wells;
2. All logging and testing data on the wells;
3. A demonstration of mechanical integrity;
4. Anticipated maximum pressure and flow rate at which the permittee will operate;
5. Results of the Injection Zone and Confining Zone testing program (as required in 30 TAC §331.62 relating to Construction Standards);
6. Adjusted formation pressure increase calculations, fluid front calculations and updated cross sections of the Confining and Injection Zones, based on the data obtained during construction and testing;
7. The actual injection procedure;
8. The compatibility of injected wastes with fluids in the Injection Zone and minerals in both the Injection Zone and the Confining Zone and materials used to construct the wells;
9. The calculated Area of Review and Cone of Influence based on data obtained during logging and testing of the well and the formation, and where necessary, revisions to the information submitted under 30 TAC §331.121;
10. The status of corrective action required for defective wells in the Area of Review;
11. A Well Data Report on forms provided by the executive director;
12. Compliance with the casing and cementing performance standard in 30 TAC §331.62(5);
13. Compliance with the cementing requirements in 30 TAC §331.62(a)(6).

UEC will also provide written notice to the TCEQ (Austin headquarters and Region 14) that a copy of the permit has been filed with the health and pollution control authorities of the county, city and town where the well is located.

Prior to startup of the proposed injection well, UEC will notify the TCEQ (Austin headquarters and Region 14) in writing of the anticipated well startup date. UEC will demonstrate compliance with all pre-operation terms of the permit prior to beginning injection operations. UEC will not commence operations until they have received written approval to do so from the TCEQ.

VI.B. Existing Injection Wells

This permit application is for new, non-constructed Class I injection wells. As such, Section VI.B. is not applicable to this application.

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VI.C. Well Operation, Monitoring and Maintenance

During normal operation, the proposed wells will operate continually except when mechanical integrity tests, workovers, maintenance or possible emergency shutdowns occur. All operating parameters will be closely monitored to prevent exceeding TCEQ permit limits. A tabulation of monitored operating parameters is included as Table VI-1

VI.C.1 Maximum Instantaneous Injection Rate

The requested maximum injection rates for WDW-447 and WDW-448 are summarized below:

Injection Well	Maximum Instantaneous Injection Rate(gpm)
WDW-447	200
WDW-448	200

VI.C.2 Average Injection Rates and Volumes

Anticipated average injection rates and volumes per well for the two proposed wells are summarized below:

Rate/Volume Category	Rate/Volume
Average Injection Rate for each proposed well	200 gpm
Average Monthly Injection Volume for each proposed well	8,928,000 gallons(1)
Annual Injection Volume for each proposed well	105,120,000 gallons(2)

(1) equivalent to 200 gpm over 31 days

(2) equivalent to 200 gpm over 365 days

VI.C.3 Projected Average and Maximum Daily Rates and Volumes

Average monthly rate of injection for the proposed WDW-447 and WDW-448 injection wells is anticipated to range from 100 to 200 gpm per well. The anticipated annual volume of waste to be disposed of into each of the proposed injection wells is 78,840,000 gallons (based on an average rate of 150 gpm). The anticipated operational life of the proposed injection wells is 30 years. The estimated volume of waste to be disposed of in each of the proposed injection wells over the anticipated life of the well is 2,365,200,000 gallons. The anticipated maximum volume to have been injected over the life of each of the proposed wells is 3,153,600,000 gallons based on the maximum rate of 200 gpm for the anticipated operational life of 30 years

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VI.C.4 Average and Maximum Surface Injection Pressures

The requested maximum surface injection pressure (MASIP) is 572 psig for injection of all permitted waste streams into WDW-447 and WDW-448.

Injection Well	Maximum Surface Injection Pressure (psi)
WDW-447	572
WDW-448	572

This is consistent with fracture pressure calculations made using the MASIP computer program which is discussed in Section VII.A.5. Anticipated surface injection pressures for the injection wells should range from 0 psig (vacuum) to 500 psig.

VI.C.5 Well Operation and Injection Procedures

UEC will operate the wells and the injection pump system to ensure the MASIP, as reviewed and permitted by the TCEQ, are not exceeded. This operational practice prevents any potential pressure increases in the Injection Zone which could potentially fracture the Injection Zone and the Confining Zone present below the UEC facility. The fluids in the annulus of UEC wells consists of 9.0 ppg brine containing a corrosion inhibitor. UEC will maintain an annulus pressure that is at least 100 psi greater than the injection tubing pressure measured at the surface to prevent leaks from the well into unauthorized zones and to detect well malfunctions. This operating procedure demonstrates that mechanical integrity of the well is always maintained per 30 TAC §331.63(1). The operation and injection procedures will prevent the movement of fluids that could result in pollution of the USDW. There will be no injection between the outermost casing and the wellbore.

The instrumentation and pressure gauges for proposed wells WDW-447 and WDW-448 will be in weatherproof enclosures at the wellheads. Recording devices will be in the control room which record well operating parameters. These instruments will measure and continuously monitor and record the injection pressure, flow rate and temperature of the injected fluids; tubing-to-longstring casing annulus pressure; and volume injected into the injection wells.

Annulus pressure and injection pressure gauges will be installed on the WDW-447 and WDW-448 wellheads to allow visual monitoring of operating conditions. Additionally, alarms will be provided to alert operators to high flow rates, low annulus pressure and low level in the annulus fluid tanks. All gauges, pressure sensing and recording devices will be tested and calibrated

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quarterly. In the event an alarm sounds, facility personnel will notify a trained operator to investigate and correct the problem.

Appropriate action will be taken if pressure or flow rates exceed the limits set forth in the injection well permits. UEC will notify the TCEQ within 24 hours of any significant change in monitoring parameters or any other observations which could reasonably be attributed to a leak or other failure of the well equipment or Injection Zone integrity. Table VI-1 (Injection Well Monitoring and Reporting Requirements) summarizes the functions of the injection wells which will be monitored, and the measurement frequencies and reporting schedules, as required by UIC rules of the TCEQ.

Waste Analysis Plan

UEC will annually sample and test its injectate to obtain a detailed chemical and physical analysis of the fluid to be disposed of in its injection wells. Analysis of the injection fluid will follow the guidelines set forth in the waste analysis plan (Section IX.A.3) and will be done with a frequency to yield representative samples regarding the characteristics of the fluid. This monitoring ensures permit limits are not exceeded. The plan describes the procedures for chemical and physical analysis of a representative sample of the waste. UEC will continue to analyze the injected waste following the applicable guidelines as long as Class I injection wells are operated at the Burke Hollow facility. In addition, UEC will conduct continuous or periodic monitoring of parameters specified or required by the permit and the chemical and physical characteristics of the injected fluids will be maintained within specified permit limits. UEC will properly operate and maintain all facilities and systems of treatment and control which are installed and/or used to achieve compliance with the conditions of the injection well permits. Monitoring activity records will include the following information

1) Date, time and place of sample measurement;
2) Identity of individual who collected the sample or made the measurement;
3) Date of analysis;
4) Identity of individual in laboratory who performed the analysis;
5) Technique and method of analysis; and
6) Results of the analysis of measurement.

Workover Operations

UEC will notify the TCEQ before commencing any workover operation. The notification will be in writing and include plans for the proposed work. The workover will not begin until TCEQ approval has been obtained. An exception to the prior written notification and permission requirements may be granted by TCEQ when immediate action is required to prevent movement

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of fluids into the USDW and to prevent leaks from the well into unauthorized zones. In addition, pressure control equipment will be installed and maintained during workovers which involve the removal of tubing

Notification of Resuming Injection

If injection operations have ceased in either of the proposed injection wells for more than two years and the well is subject to closure as described in 30 TAC §305.154(a)(7), UEC will notify the TCEQ in writing 30 days prior to resuming operation of the well.

Operations Record Maintenance

UEC will maintain a written operating record at the facility. This operating record will contain a description and an account of the quantity of liquid disposed of in the UEC wells.

UEC will maintain complete and accurate records of all monitoring required by the permit; all periodic well tests; all shut in periods and times that emergency measures were used for handling injection fluid; and all additional information on conditions that might reasonably affect the operation of their wells. UEC will retain all monitoring and reporting records at the facility site for a period of at least three years from the date of the record or sample. UEC will also retain for a period of five years following abandonment of each well, records of all information resulting from any monitoring activities or other records required by that permit. UEC will make available to the TCEQ all records, upon request, that are required to be kept by each permit.

VI.C.6 Well Monitoring Plans

UEC will operate the injection wells and the injection pump systems to ensure the permitted operating parameters, as permitted by the TCEQ, are not exceeded.

VI.C.6.a Wellhead Pressure Gauges (30 TAC §331.64(c))

Pressure gauges will be installed on the WDW-447 and WDW-448 wellheads and will be maintained in proper operating conditions at all times. The gauges will monitor the injection tubing pressure and the annulus pressure between the injection tubing and longstring casing. A schematic of the wellhead annulus monitoring system is included as Figure VI-3. A sight gauge will be installed on the annulus fluid tanks for visual inspection. Additionally, visual and audible alarms will be provided to alert operators to high flow rates, low annulus pressure and low level in the annulus fluid tanks.

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VI.C.6.b Continuous Recording Devices (30 TAC §331.64(d))

The instrumentation and pressure gauges for proposed wells WDW-447 and WDW-448 will be in weatherproof enclosures at the wellheads. Recording devices will be in the weatherproof control room which record well operating parameters. These instruments will measure and continuously monitor the injection pressure, flow rate and temperature of the injected fluids; tubing/longstring casing annulus pressure; and volume injected into the injection wells. The data for these parameters will be sent to the UEC control room where each measured parameter is displayed and recorded. This will provide the operator with the opportunity to visually monitor the required operating and monitoring parameters. In addition, UEC operators can warn the control room operator if something appears unusual.

Alarms and Shutdown Response (30 TAC §331.64(d)(3))

Visual and audible alarms will occur at the control room facility to alert operators when established operating parameters are exceeded. Alarms will be set to sound at the following parameters for proposed injection wells:

1) Longstring casing-tubing annulus pressure differential is less than 100 psig;
2) Injection pressure is at 576 psig;
3) Flow rate exceeds 200 gpm.

In the event an alarm sounds on one of the injection wells, facility personnel will be instructed to contact a trained operator to investigate and correct the problem. If upon investigation, it is determined the well is lacking mechanical integrity, or if continued monitoring otherwise indicates the well may be lacking mechanical integrity, UEC will: (1) cease injection of waste fluids (unless authorized by the TCEQ executive director TCEQ to continue or resume injection; (2) take the steps necessary to determine the presence or absence of a leak; and (3) notify the TCEQ within 24 hours after the alarm or shutdown occurs

Loss of Mechanical Integrity (30 TAC §331.64(d)(4))

If it is determined the injection well(s) has suffered a loss of mechanical integrity either by monitoring or during periodic mechanical integrity testing, UEC will: (1) immediately cease injection of waste fluid; (2) take the steps reasonably necessary to determine whether there may have been a release of injected fluids into any unauthorized zone; and (3) notify the TCEQ within 24 hours after the loss of mechanical integrity is discovered. Once a solution, remedy or course of action has been determined, UEC will notify the TCEQ regarding when injection can be expected

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to resume, and will restore and demonstrate mechanical integrity to the satisfaction of the TCEQ prior to resuming injection of waste fluids.

Release of Wastes into Unauthorized Zone (30 TAC §331.64(d)(5))

If UEC discovers there may have been a release of injected wastes into an unauthorized zone, UEC will immediately cease injection of wastes. UEC will then: (1) notify the TCEQ within 24 hours of obtaining evidence of the unauthorized release; (2) take all necessary steps to identify and characterize the extent of any release; (3) propose a remediation plan for TCEQ review and approval; (4) comply with any remediation plan specified by the TCEQ; and (5) implement the remediation plan approved by the TCEQ. If the release is into a USDW or freshwater aquifer currently serving as a water supply, UEC will, within 24 hours, notify the local health authority, place a notice in a newspaper of general circulation and send notification by mail to the adjacent landowners. UEC understands that the TCEQ may allow UEC to resume injection prior to completing cleanup action if UEC demonstrates that the injection operation will not endanger USDW or freshwater aquifers.

VI.C.6.c Continuous or Periodic Monitoring Devices (30 TAC §331.64(b)(3))

UEC will analyze the injected waste following the applicable guidelines. UEC will conduct continuous or periodic monitoring of parameters specified or required by the permit and the chemical and physical characteristics of the injected fluids will be maintained within specified permit limits. In addition, UEC will, at all times, properly operate and maintain all facilities and systems of treatment and control which are installed and/or used to achieve compliance with the conditions of the permits. Table VI-1 (Injection Well Monitoring and Reporting Requirements) summarizes the functions of the injection wells which will be monitored, and the measurement frequencies and reporting schedules, as required by UIC rules of the TCEQ.

VI.C.6.d Annual Mechanical Integrity Testing (30 TAC §331.64(e))

UEC will conduct annual mechanical integrity testing (MIT) of the wells in accordance with the requirements of 30 TAC §331.64(e). The MIT procedures will include an APT and an RTS. Results of the APT demonstrate the injection wells have maintained pressure integrity in the longstring casing, tubing, packer and wellhead seal. The RTS is used to confirm there has been no upward movement of liquid above the perforated interval or permitted Injection Zone. A temperature log, noise log, oxygen activation log or other approved log will be run once every five years to test for fluid movement along the borehole. Additionally, a casing inspection, casing evaluation or other approved log will be run whenever a workover is conducted during which the injection tubing is pulled. This requirement may be waived by the TCEQ due to well construction or other factors

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which limit the test's reliability or based upon the satisfactory results of a casing inspection log run within the previous five years.

VI.C.6.e Quarterly Corrosion Monitoring (30 TAC §331.64(g))

The well annulus monitoring systems for the UEC injection wells will be specifically designed to detect any annulus leaks, should they occur. This would include leaks that resulted from corrosion. It is in UEC's best interest to minimize corrosion and have well construction materials that are compatible with injected wastes.

UEC will install a corrosion monitoring loop (consisting of one length of carbon steel injection tubing with PVC lining) in the flow line at the wellhead. The test loop will be continuously exposed to the wastewater, except for when the well is out of service. The test loop will be removed and inspected on an annual basis, and quantitatively evaluated for corrosion according to ASTM guidelines. UEC will monitor the test materials for loss of mass, thickness, cracking, pitting and other signs of corrosion on an annual basis to ensure that the well components meet the minimum standards for material strength and performance set forth in 30 TAC §331.62(l). The tubing and packer components that will be in contact with the UEC wastewater are proposed to be constructed of carbon steel.

Compatibility

Proposed injection wells WDW-447 and WDW-448 will be constructed using similar cements and carbon steel components (tubulars, wellhead components, packers and casings) as those used in the construction of WDW-419. Given the acceptable waste-to-well construction component compatibility history of the WDW-419 injection well and the cements selected for utilization, no compatibility problems are anticipated in association with the proposed WDW-447 and WDW-448 injection wells.

VI.C.6.f Annual Pressure Buildup Monitoring (30 TAC §331.64(h)(2))

The pressure buildup in the Injection Zone will be monitored annually by means of a static gradient survey, static bottomhole pressure measurements, and pressure buildup and falloff testing, consistent with the requirements of 30 TAC §331.64(h)(2). During pressure buildup and falloff testing, the well will be shut in for a sufficient time to reach radial flow. Reservoir analysis will include a determination of formation transmissibility and permeability.

VI.C.7 Wellhead and Associated Facilities Painting and Maintenance

The proposed wellhead and associated facilities will be painted and maintained in good working order without leaks, consistent with the requirements of 30 TAC §331.66(b)(3).

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VI.C.8 Secondary Containment Demonstration

Each injection well will be located on a concrete pad with a sump to protect the ground surface from spills and releases from the wellhead and ancillary equipment. Any contaminated liquid collected from spills or releases will be disposed of in an appropriate manner.

VI.C.9 All-Weather Road Demonstration

Both of the proposed injection well locations are within close proximity to an all-weather road, and easy access to the injection wells and related facilities are currently present at the well installation sites, consistent with the requirements of 30 TAC §331.66(b)(2).

VI.C.10 Signage at Well Location

Signs will be posted at WDW-447 and WDW-448 locations showing the company name, company well number and TCEQ permit number. The sign identification will be in the English language, clearly legible and composed of numbers and letters at least one-inch high.

VI.C.11 Contingency Plans

If an automatic alarm is triggered, a trained operator shall immediately investigate and identify as expeditiously as possible the cause of the alarm and shut down the well if necessary to prevent possible migration of waste into USDW or fresh water aquifers. If, upon investigation, UEC believes the proposed injection wells have lost mechanical integrity, UEC will comply with applicable requirements of 30 TAC §331.44 and 30 TAC §305.152.

If mechanical failure of the well is to such a degree that injection operations are suspended for an extensive length of time, UEC will manage the fluids to be injected by utilizing the permitted on-site storage tank pre-injection facilities.

VI.D. Well Closure, Post-Closure Care and Cost Estimates

The following sections discuss the plugging and abandonment procedures to be implemented once the proposed injection wells reach the end of their useful life and include well closure cost estimates. No post-closure plans have been developed for the proposed injection wells as they are classified as non-hazardous. Post-closure care plans are not required for non-hazardous wells.

VI.D.1 Closure Plans

UEC's proposed WDW-447 and WDW-448 injection wells will be plugged and abandoned following the requirements of applicable regulations. In developing the closure plan, geological and economic conditions were considered. No adverse reactions in the Het Sand are expected from

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operation of the UEC proposed injection wells. The well closure cost estimate will be adjusted as needed to account for inflation in the cost of oilfield materials and services.

Prior to closing each well, UEC will observe and record the pressure decay for a time specified by the TCEQ Executive Director. A determination will be made whether the injection activity has conformed with predicted values regarding the observed and recorded pressure decay testing at closure. In addition, appropriate mechanical integrity testing shall be conducted to ensure the integrity of that portion of the longstring casing and cement that will be left in the ground after closure to ensure that no fluids move into or between USDW.

Prior to plugging, each well to be closed will be in a state of static equilibrium with the mud or fluid weight equalized top to bottom, either by circulating the mud or fluid in the well at least once or by a comparable method prescribed by the TCEQ Executive Director.

Notice of intent to plug and abandon the subject disposal well will be given at least 60 working days prior to closure of each disposal well. A closure report certifying that the well or wells were closed in accordance with applicable requirements will be submitted to the proper agencies within 30 calendar days of plugging each well. The report will include any newly constructed or discovered wells within the Area of Review. The closure report will also include information on any materials (packer, injection tubing, tailpipe, etc.) left in the well after closure. When plugging and abandonment is complete, UEC will submit certification to the TCEQ Executive Director (by UEC and by a licensed, Professional Engineer with current registration pursuant to the Texas Engineering Practice Act, who is knowledgeable and experienced in practical drilling engineering and who is familiar with the special conditions and requirements of injection well construction) that the injection well has been closed in accordance with 30 TAC §331.46.

UEC will accomplish plugging of WDW-447 and WDW-448 by cementing the wells from total depth to surface. The surface and longstring casings will be left in the wells and will not be parted. The procedures utilized for the closure of each injection well are described on the following pages:

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Well Closure Plan (WDW-447 and/or WDW-448)

1. Notify TCEQ at least 60 days prior to commencement of closure according to the following closure plan (once approved) as required by 30 TAC §331.46(f). Provide TCEQ with any revised, updated or additional closure plans for approval.

2. Prepare the location for a well service unit.

3. Install a digital pressure recorder on the annulus. Pressure test 7 5/8-inch x 4 ½-inch annulus to 676 psi for 30 minutes with TCEQ inspector present. Record test results.

   NOTE: If unable to pump into the well for a pressure decay (falloff) test and/or RTS, notify TCEQ and proceed to step 7.

4. Move in and rig up well service unit and support equipment.

5. Perform and record a pressure decay test for a length of time specified by TCEQ using a non-hazardous buffer fluid.

6. Run logging program to include a RTS to verify the external mechanical integrity of the well.

7. Rig down and move out wireline unit and mast trailer and/or move in and rig up well service unit and support equipment.

8. Pump two tubing volumes of brine water of sufficient density to kill well (if able to pump into the well). Steps 5 and 8 serve to flush the well with non-hazardous buffer fluid as required by 30 TAC §331.46(d).

9. Break down the injection tree valving and bonnet. Nipple up BOP stack to tubing head.

10. Release packer and recover injection tubing. If packer does not release, arrange to sever tubing above packer, recover tubing and abandon with packer in place.

11. Rig up wireline unit and run casing inspection log. [Note: if well would not take fluid for falloff test (Step 5) and/or RTS (Step 6), include a differential temperature survey in this logging run.].

12. Run and set squeeze retainer at approximately 2,920 feet.

13. Rig up and pump approximately 200 sacks of Premium Plus (API Class C, 1.32 ft3/sk) high sulfate resistant cement containing fluid-loss additive below the squeeze retainer and squeeze cement through the perforations in the perforated interval into the geologic formation.

14. Unsting from retainer and pump 20 sacks of cement on top of retainer. Pull up hole and reverse circulate tubing to clear it of cement. The cement above and below the retainer will service as the lowermost cement plug (Plug No. 1).

15. Wait on cement for 12 hours.

16. Tag plug and record depth. Pressure test plug and casing for seal and stability.

17. Pump approximately 284 sacks of Premium Plus cement from top of lower cement plug to 1,500 feet in 1,000-foot stages. Pull up hole and reverse circulate tubing to clear it of cement. This cement plug will service as the USDW cement plug (Plug No. 2).

18. Wait on cement for 12 hours.

19. Tag plug and record depth. Pressure test plug and casing for seal and stability.

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20. Rig up and circulate approximately 300 sacks of Premium Plus cement from top of USDW cement plug to surface in 1,000-foot stages. Wait 12 hours for cement to cure. Top off with additional Premium Plus cement as required to assure cement to surface (Plug No. 3).

21. Rig down the BOP stack and all accessory equipment; rig down and move out well service unit and support equipment.

22. Cut off tubing head and 7 5/8-inch and 10 3/4-inch casings below grade.

23. Weld ¼-inch steel plate over 10 3/4-inch and 7 5/8-inch casing strings.

24. Install a permanent marker at the plugged well that identifies the TCEQ Permit Number, the date of abandonment and the company name.

VI.D.2. Well Closure Cost Estimates

In 2025 dollars, the closure plan and plugging procedure is expected to cost approximately $336,922 for each of the proposed WDW-447 and WDW-448 injection wells. Financial assurance documents for closure of the proposed injection wells will be provided prior to commencement of drilling activities. Once any of the wells are drilled, this cost will be updated annually and reported in the annual financial assurance letter.

Closure Cost Estimate for each proposed well (WDW-447 or WDW-448)

	Estimated Cost
Consultant (Planning, Supervision and Reporting)	52,411
Testing – MIT and Casing Inspection Log	17,908
Well Service Unit	85,680
Packer Service	7,652
BOP rental	11,150
Rental Equipment	56,496
Cementing and Abandonment	22,297
Fluids, Pumping, Vacuum Trucks and Hauling	16,300
Estimated Taxes	10,874
Subtotal	280,768
Contingency (20%)	56,154
Total	336,922

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VI.D.3. Post-Closure Plan for Hazardous Waste Wells

WDW-447 and WDW-448 will be classified as non-hazardous. Information regarding post-closure plans and post-closure plan cost estimates for hazardous waste injection wells is not applicable for the undrilled WDW-447 and WDW-448 injection wells and, therefore, post-closure plans are not required for these wells.

VI.D.4. Post-Closure Care Cost Estimate for Hazardous Waste Wells

WDW-447 and WDW-448 will be classified as non-hazardous. Information regarding post-closure plans and post-closure plan cost estimates for hazardous waste injection wells is not applicable for the undrilled WDW-447 and WDW-448 injection wells and, therefore, post-closure plans are not required for these wells.

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American Petroleum Institute, 1994, Bulletin on Formulas and Calculations for Casing, Tubing, Drill Pipe, and Line Pipe Properties, API Bulletin 5C3, Sixth Edition, October 1, 1994, American Petroleum Institute, Washington, D.C.

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TABLE VI-1

INJECTION WELL MONITORING AND REPORTING REQUIREMENTS

Uranium Energy Corporation
Bee County, Texas

Condition	Measurement Frequency	Specific Measurements to be Reported	When Reported to TCEQ
Annulus Pressure	Continuously Recorded	Instantaneous Minimum, Minimum Differential	Quarterly
Analysis of Fluid Injected	Annually Sampled	pH, Conductivity, TDS, Alkalinity, Radiation, Mineral Constituents, Uranium	Annually
Injection Tubing Pressure	Continuously Recorded	Instantaneous Maximum, Monthly Average	Quarterly
Injection Flow Rate	Continuously Recorded	Instantaneous Maximum, Monthly Average	Quarterly
Cumulative Volume of Fluid Injected	Calculated and Recorded Daily	Monthly Total	Quarterly
Temperature of Fluid Injected	Continuously Recorded	Upon Request	Upon Request
pH and Specific Gravity of Fluid Injected	Continuously Recorded or Grab	Minimum and Maximum pH and Specific Gravity	Quarterly
Corrosion	Coupons Monitored Quarterly (if required)	Percent Weight Loss	Upon Request
Exceedance of Annulus Pressure or Injection Pressure Limits	Every Incident	Description of Event	Within 24 Hours of Violation
Any Alarm or Shutdowns	Every Incident	Any Event Which Results in Significant Failure	Within 24 Hours of Incident if Well Integrity is Suspect
Changes in Volume of Annular Fluid	Continuously Recorded	Upon Request	Upon Request
Bottomhole Pressure	Annually	Direct Measurement	Annually

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TABLE VI-1 (cont)

INJECTION WELL MONITORING AND REPORTING REQUIREMENTS

Uranium Energy Corporation
Bee County, Texas

Condition	Measurement Frequency	Specific Measurements to be Reported	When Reported to TCEQ
Pressure Fall-off	Annually as Part of MIT	Pressure Fall-off Over Sufficient Time Span to Generate Curve	Annually
Newly Constructed/Newly Discovered Wells in AOR	Annually	Location and Tabulation of Data as Required in 30 TAC §331.121(a)(2)(B)	Annually
Mechanical Integrity of:			
a) Long String Casing, Injection Tube, and Annular Seal	Annually	Results of Pressure Test	Within 30 Working Days of Test Completion
b) Bottomhole Cement by RAT Survey	Annually	RAT Survey Log Evaluation	Within 30 Working Days of Test Completion
c) Fluid Movement Along Borehole	Every 5 years	Temperature, Noise or Other Approved Logging Methods	Within 30 Working Days of Test Completion
Any Well Workover	Time of Work	Workover Report of Field Activities and Reason for Workover	Within 30 Working Days of Test Completion
Any Other Required Test of the Injection Well	Time of Work	Test Results	Within 30 Working Days of Test Completion

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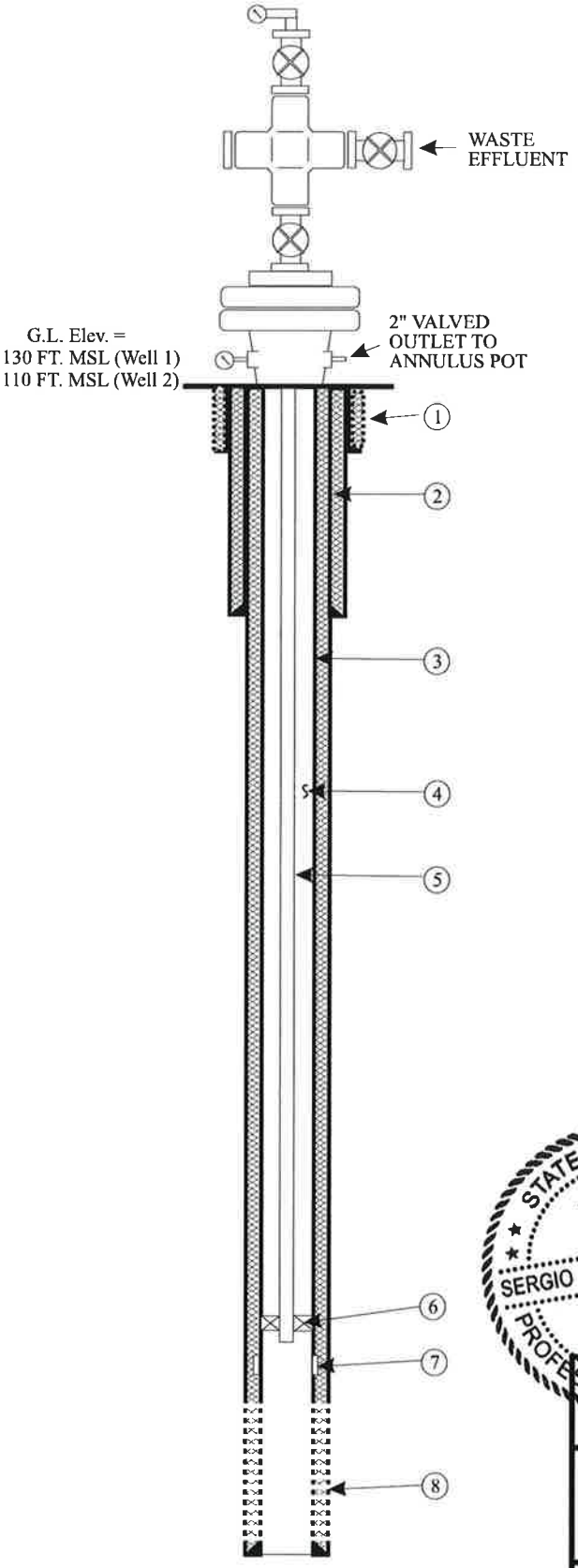
BELOW GROUND DETAIL



TOTAL DEPTH = 3,900'

Proposed
Injection Zone: 2,940' - 3,900' BGL
Injection Interval: 3,070' - 3,900' BGL

ALL DEPTHS RELATIVE TO GROUND LEVEL ELEVATION.

1. **CONDUCTOR:** 16" OD, 0.250" wall, carbon steel set in 24" hole to approximately 50' and cemented to surface with Redi-Mix cement.

2. **SURFACE CASING:** 10 3/4", 40.5 lb/ft, J-55, STC set in 14 3/4" hole to approximately 1,800' and cemented to surface with Halliburton Extendacem System Cement (or equivalent) with 0.35% HR-800, and 0.1% FE-2 with a designed fill interval from approximately 1,440' to surface followed by Halliburton SBM Halcem System cement (or equivalent) with 0.5% HR-800 with a designed fill interval from approximately 1,800' to 1,440'.

3. **LONG STRING CASING:** 7 5/8", 26.4 lb/ft, J-55, LTC set in 9 7/8" hole to approximately 3,900' and cemented to surface in two stages:
   - **1st Stage:** Halliburton Hacelm System Cement (or equivalent) with 0.4% HR-800 with a designed fill interval from approximately 3,900' to 3,000'.
   - **2nd Stage:** Halliburton Extendacem System Cement (or equivalent) with 0.35% HR-800 and 0.1% FE-2 with a designed fill interval from approximately 2,620' to surface followed by Halliburton Halcem System Cement (or equivalent) with 0.35% HR-800 and 0.1% FE-2 with a designed fill interval from approximately 3,000' to 2,620'.

4. **ANNULUS FLUID:** Corrosion inhibited 9.0 lb/gal brine.

5. **INJECTION TUBING:** 4 ½", 11.6 lb/ft, J-55, LTC, set with top of packer at approximately 2,920' with 10,000 to 15,000 lbs stackout weight on packer.

6. **PACKER:** Delta P Model 12 carbon steel, 7 5/8" x 4 ½", retrievable. Packer set on bottom of tubing from approximately 2,920' to 2,925' (or as required to locate approximately 100 feet above uppermost perforations) with 4 ½" tailpipe extending to approximately 2,955'.

7. **MULTI-STAGE CEMENTING TOOL:** Installed in the 7 5/8" long string casing at approximately 3,000'.

8. **PERFORATIONS:** 4 shots/ft as required in selected Injection Interval.

STATE OF TEXAS
SERGIO A. GARCIA PRADA
154026
LICENSED PROFESSIONAL ENGINEER

12/19/24
Terra Dynamics Incorporated
Texas Registered Engineering Firm
F-3501

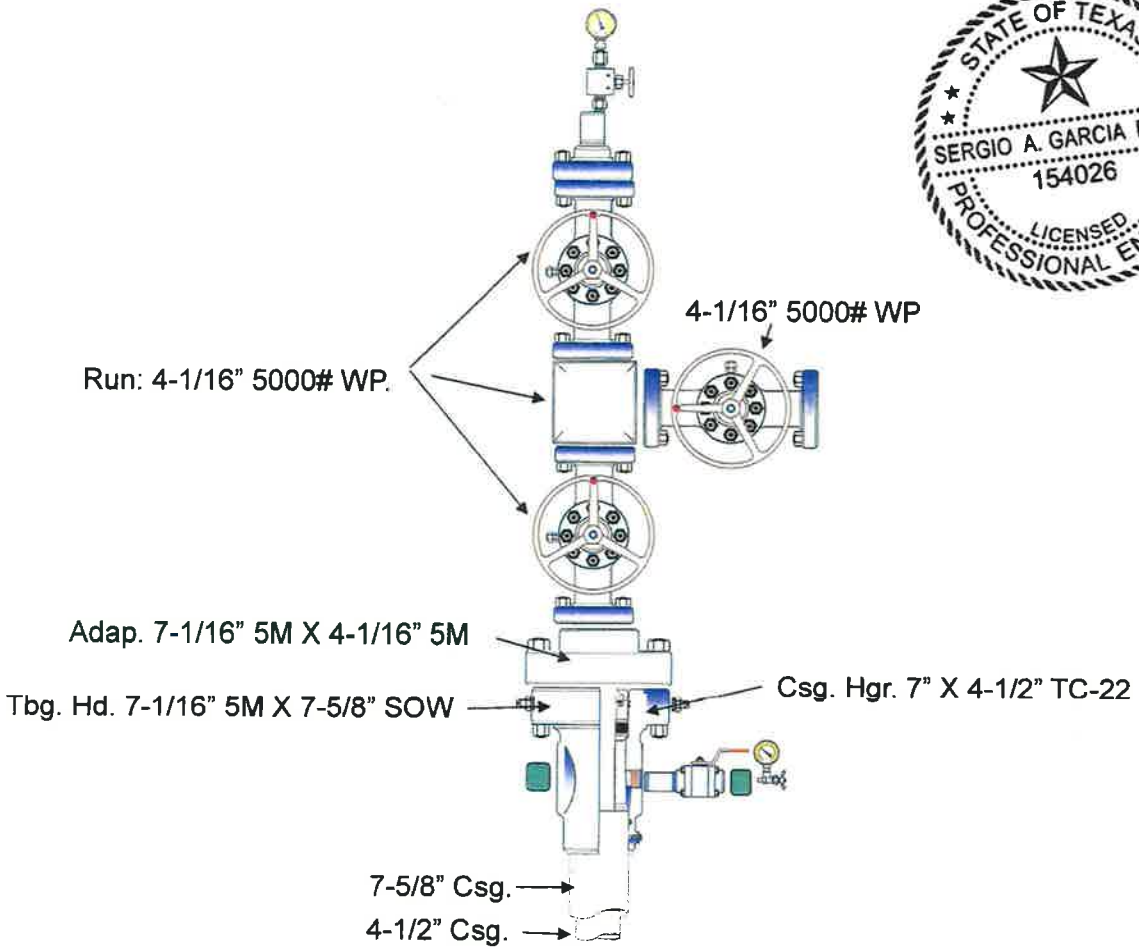
FIGURE VI-1

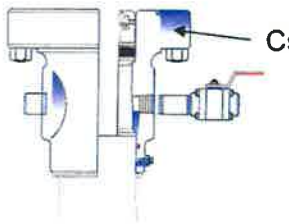
TERRA DYNAMICS INC

CONSTRUCTION SCHEMATIC
OF PROPOSED DISPOSAL WELLS WDW-447 AND WDW-448

PREPARED FOR
URANIUM ENERGY CORPORATION
BURKE HOLLOW PROJECT
BEE COUNTY, TEXAS

DRAWN BY: SAGP	SCALE: N.T.S.	DATE: 12/11/2024	
DESIGNED BY: SAGP		JOB NO. 24-145	© 2024
CHECKED BY: BKB			





STATE OF TEXAS
SERGIO A. GARCIA PRADA
154026
LICENSED PROFESSIONAL ENGINEER

12/19/24
Terra Dynamics Incorporated
Texas Registered Engineering firm
f-3501

FIGURE VI-2

TERRA DYNAMICS INC

WELLHEAD AND TREE VALVE ARRANGEMENT
PROPOSED WELLS WDW-447 AND WDW-448

PREPARED FOR
URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

DRAWN BY: SAGP	SCALE: DRAWING NOT TO SCALE	DATE: 12/11/24
DESIGNED BY: SAGP		JOB NO. 24-145
CHECKED BY: BKB		

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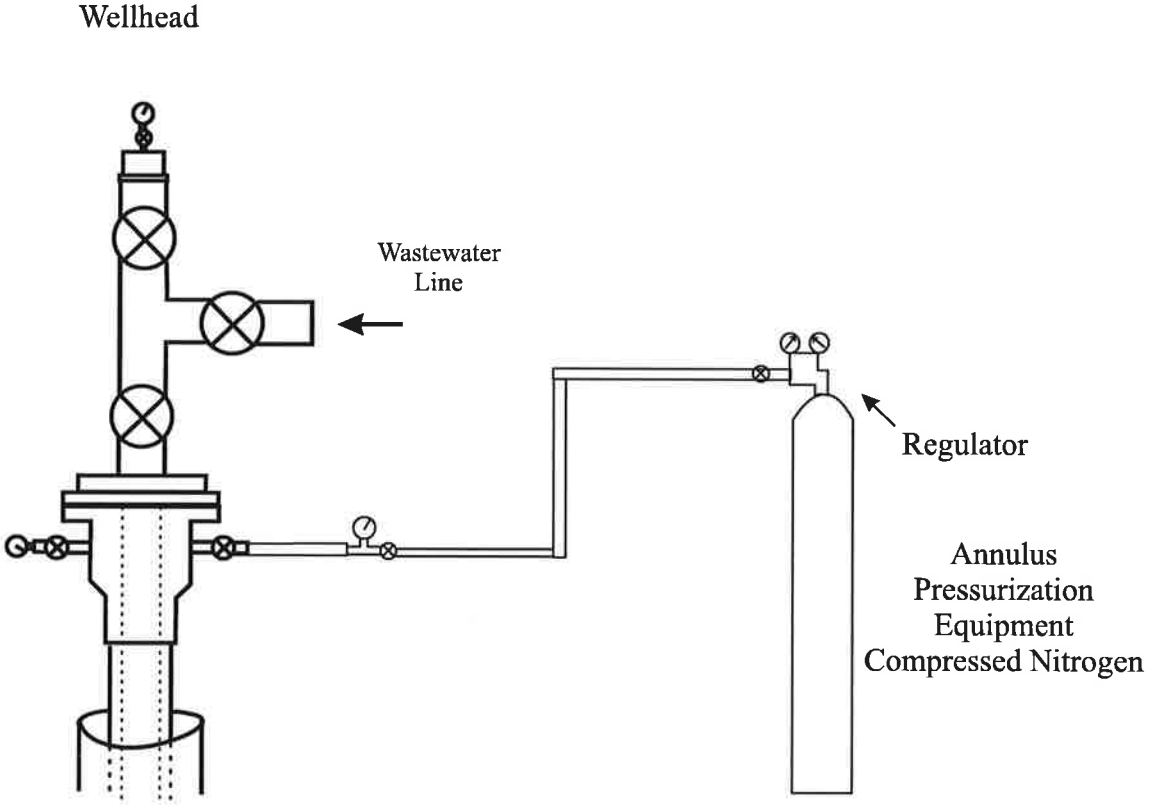

FIGURE VI-3

TERRA DYNAMICS INC

WELLHEAD ANNULUS MONITORING SYSTEM
FOR PROPOSED WELLS WDW-447 AND WDW-448

PREPARED FOR
URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

DRAWN BY: SAGP	SCALE: Not to Scale	DATE: 12/11/24
DESIGNED BY: UEC		JOB NO.: 24-145
CHECKED BY: BKB		

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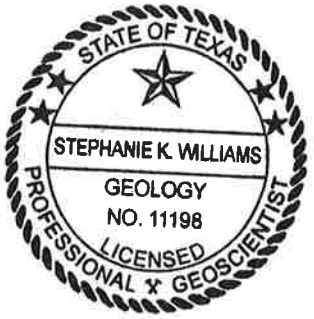
Geoscientist Seal

Signature by Texas Professional Geoscientist

I, Stephanie K. Williams, the undersigned state: As an employee of Terra Dynamics Incorporated that I am authorized to prepare this document (***VII. Reservoir Mechanics***) and that this document (***VII. Reservoir Mechanics***) was prepared under my supervision and direction. All facts stated herein are true, correct and complete to the best of my knowledge. The geosciences information, calculations and analyses attested to in this document (***VII. Reservoir Mechanics***) were prepared in accordance with generally and currently accepted geosciences principles and practices. The information specifically covered by this seal includes Pages VII-1 to VII-10, Tables VII-1 to VII-5 and Figures VII-1 to VII-2 as they relate to the Permit Application to Dispose of Waste in a Class I Injection Well, Permit Renewal Application [WDW-447 and WDW-448] for the Uranium Energy Corp., Burke Hollow Facility, Bee County, Texas.



Stephanie K. Williams 12/19/2024

Signature | Date

Licensed Professional Geoscientist
#11198, State of Texas
Terra Dynamics Incorporated
Texas Registered Engineering Firm
F-3501

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VII. RESERVOIR MECHANICS REPORT

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VII. RESERVOIR MECHANICS REPORT

The Het Sand Injection Interval has sufficient permeability, porosity, thickness and areal extent to prevent migration of constituents from the Injection Zone into a USDW or freshwater aquifer. A summary of the reservoir parameters, bottomhole pressure (BHP) and bottomhole temperature (BHT), fracture gradient, Cone of Influence (COI) and pressure buildup calculations are provided in the following sections.

VII.A. Injection Interval Reservoir Mechanics and Hydrology

For purposes of this permit application, the informal unit "injection reservoir" is considered to be the formally defined and permitted Injection Interval, from a depth of approximately 3,070 to 3,900 feet below ground level (BGL) in WDW-447 within the lower Anahuac Formation and upper Frio Het Sand Formation. This is part of the Injection Zone through which it is predicted that injected wastewater and displaced reservoir fluids will flow and pressure will increase. This permitted Injection Interval lies within the defined Injection Zone, present from a depth of approximately 2,940 to 3,900 feet BGL in WDW-447. The Injection Interval in WDW-448 is present from 3,155 to 3,900 feet BGL, with the Injection Zone being considered from a depth of approximately 3,060 to 3,900 feet BGL.

VII.A.1 Injection Zone Stratigraphy and Lithology

Based on the local stratigraphy, the proposed Injection Zone has sufficient permeability, porosity, thickness and areal extent for successful injection activity. A summary of the lithologic, mineralogic, permeability, porosity, BHP and BHT information is provided in Table VII-1. A summary of the Injection Interval fluid characteristics is provided in Table VII-2.

The Injection Zone for the proposed UEC wells lies within the Anahuac and Frio Formations. The upper part of the Injection Zone (the Containment Interval, above the Injection Interval) is at a depth of approximately 2,940 to 3,070 feet BGL in WDW-447. The lower part of the Injection Zone (the Injection Interval) is at a depth of approximately 3,070 to 3,900 feet BGL in WDW-447. A structure map of the top of the Injection Zone is included as Plate V-5. An isopach map of the Injection Zone is included as Plate V-6. A structure map of the top of the Confining Zone is included as Plate V-7. An isopach map of the Confining Zone is included as Plate V-8. A local dip cross section is included as Plate V-1. A local strike cross section is included as Plate V-2.

Containment Interval

The Containment Interval for the proposed wells is defined as occurring between the approximate depths of 2,940 to 3,070 feet BGL. Local geophysical log information indicates that the

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Containment Interval consists of approximately 130 feet of interbedded sandstone and shale. The interbedded low permeability and porosity shales present from 2,940 to 3,070 feet BGL provide a barrier to vertical fluid movement in the Containment Interval due to their continuity and hydrologic character. The estimated average sand porosity across the Containment Interval from 2,940 to 3,070 feet BGL (based on INEOS WDW-163 whole core samples included in Appendix B) was 30 percent, while the shale samples averaged 10 percent. Permeability values for the sands averaged 700 mD, while the shale values were less than 0.01 mD.

Injection Interval

The proposed Injection Interval consists of the Het Sand within the Frio Formation (Figure V-7), at an approximate depth of 3,070 to 3,900 feet BGL at the proposed WDW-447 location. Within the geologic study area, the total thickness of the Injection Interval is approximately 400 to 700 feet (Plate V-4).

The Het Sand Injection Interval consists of an interbedded sequence of massive, blocky, stacked sands separated by thin irregular shaley beds. The shales are moist, plastic and unconsolidated. A description of the Injection Interval lithology and cores from similar strata in the upper Frio Formation at the INEOS injection wells is included in Section V.B.3.d. A summary of the lithologic properties of the Injection Zone, including separate descriptions of the Injection Interval and Containment Interval, is provided in Table VII-1.

VII.A.2 Reservoir Rock Parameters

Stratigraphy and Lithology

The injection reservoir, which is consistent with the Injection Interval, comprises the lower part of the Injection Zone. The injection reservoir (and Injection Interval) is at a depth of approximately 3,070 to 3,900 feet BGL. A structure map of the top of the Injection Interval is included as Plate V-3. An isopach map of the Injection Interval is included as Plate V-4. A local dip cross section is included as Plate V-1. A local strike cross section is included as Plate V-2. The lithological description of the injection reservoir is discussed in Section VII.A.1. A summary of the lithologic properties of the Injection Interval is provided in Table VII-1.

Porosity

The INEOS WDW-163 core samples discussed in Section V.B.3.d for the upper Frio Formation indicate porosity values of between 30 and 42 percent for the Injection Interval. Galloway and

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others (1983) indicate a porosity of 33 percent for the Frio Gretta 4400 Field, located nearby in adjacent Refugio County.

The UEC Het Sand and equivalent upper Frio Formation are typically very porous strata. As there are no site specific data on these strata underlying the site, the minimal porosity is considered to be **30 percent.** As part of the well drilling and completion, core will be gathered and analyzed to determine Het Sand porosity values.

Effective Porosity

Effective porosity is defined as the part of the porosity in which the pores are interconnected. As a general rule of thumb, effective porosity is approximately 80 percent of the core derived porosity. The effective porosity of the UEC injection reservoir is therefore estimated to be **24 percent** and will be employed for modeling purposes. As part of the well testing during drilling, cores will be acquired, and porosity will be measured for the Het Sand.

Permeability

The upper Frio INEOS core samples discussed in Section V.B.3.d provide permeability values of 770 to 5,618 mD in WDW-163. Galloway and others (1983) indicate a permeability of 687 mD for the Frio Gretta 4400 Field, located nearby in the adjacent Refugio County.

For modeling purposes a permeability value of **500 mD** has been selected for the Het Sand Injection Interval. A summary of the porosity and permeability properties of the Injection Interval is provided in Table VII-1. As part of the well testing during completion, an initial Het Sand reservoir permeability value will be measured.

Reservoir Thickness

The Het Sand Injection Interval (also considered the injection reservoir) consists of primarily sands, with interbedded minor shale strata. Of the approximately 700 feet gross thickness of the Injection Interval underlying the UEC site, approximately 500 net feet of sand is present in the proposed injection wells (Plate V-4). To maintain a conservative approach to the modeling, only **400 feet** of the permitted Injection Interval (700 feet) is used in the pressure modeling. Actual net sand thickness will be determined through geophysical logging during the completion of the well(s).

Bottomhole Temperature

The downhole temperature at the top of the injection reservoir (3,070 feet BGL) is estimated to be **131 ^{o}F**, based on regional Gulf Coast temperature gradient maps (Western, 1980). This value was

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derived from the ARCO equation by using the local subsurface gradient of 2 ^{o}F/100 feet and an ambient surface temperature of 70 ^{o}F (Bell, 1970). Actual downhole temperatures will be determined through geophysical logging during the completion of the well(s).

VII.A.3 Reservoir Fluid Parameters

No formation brine analysis is available from the Het Sand locally. A sample of upper Frio Formation brine was collected at the time of completion of the INEOS WDW-163 injection well from a depth of approximately 5,650 feet. The INEOS WDW-163 is slightly downdip from the WDW-447 location, which is geologically equivalent to the UEC Injection Zone. The WDW-163 Frio Formation brine is basically a sodium chloride brine, with a TDS value of approximately 86,700 mg/L, and an equivalent 8.2 weight percent.

The extrapolated viscosity for an 8.2 weight percent brine (Earlougher, 1977) is 0.61 cP at 131 ^{o}F (see Figure VII-1). The estimated reservoir fluid density is 1.03 sp. gr. extrapolated from Table 2-88 in Perry's Chemical Engineers' Handbook (Perry, 1997). A summary of the INEOS Frio Formation brine fluid characteristics is provided in Table VII-2. The formation brine is expected to have a pH of approximately 7. Actual formation brine samples will be collected during the drilling and completion of the well(s).

VII.A.4 Reservoir Pressures

The initial static bottomhole pressure at the top of the Het Sand is estimated to be **1,369 psi** at 3,070 feet BGL, based on a hydrostatic gradient of 0.446 psi/ft (derived from the reservoir fluid specific gravity). A summary of the Injection Interval bottomhole properties is provided in Table VII-1. As part of the well drilling and completion, an initial static bottomhole pressure value will be measured.

VII.A.5 Fracture Pressure

The fracture gradient for the Het Sand strata at the top of the injection reservoir below the UEC facility was calculated using the methods outlined in the TCEQ Maximum Allowable Surface Injection Pressure (MASIP) program. The input parameters and results are presented on Table VII-3. The calculated fracture gradient for WDW-447 is 0.701 psi/ft or 2,153 psi at the reference depth of 3,070 feet BGL. The maximum allowable surface injection pressure for the two proposed UEC injection wells is 590 psi, which includes a 100 psi safety factor and excludes friction losses. As WDW-448 will be slightly deeper, a slightly higher MASIP value could be employed, but for consistency the more conservative **590 psi** MASIP is requested in these applications.

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Key input parameters for the MASIP calculation are Poisson's Ratio, overburden gradient and injection fluid density. Poisson's Ratio was determined based on work by Eaton (1969). Assuming a Gulf Coast Variable Overburden, the Poisson's ratio of the injection reservoir is 0.36. Assuming a normally compacted Gulf Coast formation, the overburden gradient of the injection reservoir is estimated to be 0.9 psi/ft. The highest specific gravity of the waste stream proposed for injection is 1.1 sp. gr. at 60 °F.

VII.A.6 Other Subsurface Disposal Operations

One other known operating injection well is completed in the Het Sand Injection Interval within the UEC Area of Review. This Class II saltwater injection well (Map ID No. 75) within the Area of Review is shut in and was previously completed in the underlying Vicksburg Formation. This well should not have any impact on pressure in the UEC Injection Interval, as it injected minimal volumes of saltwater from 2006 through 2012, and is now shut in. However, Map ID No. 75 was included in the pressure model accounting for its maximum permitted injection rate (29.16 gallons per minute equivalent to 1,000 barrels per day).

VII.A.7 Reservoir Pressure Increase Predictions

The PRESS2 analytical pressure model was used to calculate the maximum pressure increases which could occur in the injection reservoir after one year, after ten years, and after thirty years (projected operational life) of maximum permitted injection into the proposed Het Sand Injection Interval. From the pressure model outputs, the projected pressure increase within the Injection Interval reservoir was contoured and plotted after thirty years of maximum permitted injection, and the size of the calculated Cone of Influence (a pressure increase of 42 psi, see Section VII.A.7 following) was determined.

The PRESS2 model was used to simulate the pressure buildup in the AOR due to injection at both proposed well locations, with each injecting at its maximum proposed rate of 200 gpm. As previously stated, it also included a saltwater injection well (Map ID No. 75) at its maximum permitted injection rate of 29.16 gpm. The pressure model was run for one year into the future, ten years into the future and thirty years into the future at a constant maximum permitted injection rate.

The computed Injection Interval reservoir pressure increases are a conservative approximation for the purposes of predicting pressure increases within the AOR and potential endangerment of the USDW. Upper and lower aquifer limits are modeled as no-flow boundaries and thus do not allow pressure dissipation vertically. The projected annual maximum injection rate in the model for each well is assumed to be at a continuous maximum permitted rate, whereas the injection rate actually will

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fluctuate and will be effectively lower during the injection lives of the wells (as observed in Map ID No. 75, which has been shut in since 2012). These model parameters thus conservatively forecast the conditions in the injection reservoir, and the resultant predictions are more than satisfactory for the purposes of determining pressure increases within the 2.5-mile radius AOR and surrounding area.

The pressure model input parameters and their sources are given in Table VII-4 for the Het Sand Injection Interval. As there is no site-specific data for the Het Sand in the nearby area, the estimated permeability and porosity values are employed in the pressure model. The model parameters input into PRESS2 are primarily derived from literature and the nearby INEOS WDW-163 core analyses (discussed in Sections VII.A.2 and VII.A.3).

The results of the PRESS2 model output were incorporated into an analytical pressure model gridding program called THWELLS to produce pressure contour maps illustrating the projected pressure increases due to injection within the injection reservoir surrounding the UEC injection wells. The projected pressure increases were modeled for the interval of thirty years after the initiation of injection (Figure VII-2). The PRESS2 modeling results are presented in Table VII-5.

The pressure model results indicate that the Het Sand Injection Interval reservoir pressure increase one, ten and thirty years from the initiation of injection at either UEC injection well would be 36 psi, 43 psi, and 46 psi, respectively. The pressure increase around the wells decreases radially with distance from the well. After one, ten, and thirty years of injection, the pressure increases at the edge of the 2.5-mile radius AOR for the UEC injection wells are 7 psi, 14 psi, and 18 psi, respectively (Table VII-5).

The most significant pressure increase is observed at WDW-447 and WDW-448. The expected maximum pressure increase at each well is 46 psi after thirty years of maximum injection (Table VII-5). The current reservoir and fracture pressure in the injection reservoir are estimated to be 1,369 psi and 2,153 psi, respectively (at the reference depth of 3,070 feet BGL, as discussed in Sections VII.A.4 and VII.A.5). After thirty years of operation (assuming maximum injection in WDW-447, WDW-448 and Map ID No. 75), the reservoir pressure at the UEC injection wells is estimated to be 1,415 psi, which is still 738 psi below the fracture pressure of the Het Sand Injection Interval. Therefore, the predicted pressure increase does not exceed the pressure necessary to extend fractures at the top of the Injection Interval.

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VII.A.8 Cones of Influence Determination

The Cone of Influence (COI) is considered for the purposes of this application as that area in which increased pressures at the top of the injection reservoir are sufficient to drive reservoir fluids into a wellbore. That wellbore is considered to contain a 9.0 pounds per gallon (lb/gal) fluid column extending from the top of the injection reservoir to a level 50 feet below the ground surface. A minimum uniform depth for the top of the reservoir is used in order to conservatively delineate the area.

In order to determine whether artificial penetrations within the AOR surrounding the proposed UEC injection wells meet standards so as to prevent endangerment of the USDW due to increased Injection Interval pressures, reservoir pressure increases are calculated using an analytical solution model. The THWELLS model, in conjunction with the PRESS2 model, projects the effects of injection incorporating the historical injection rates, and assuming all future injection into the two wells occurs at projected maximum permitted injection rates (200 gpm for each UEC well and 29.16 gpm for Map ID No. 75). The model would predict the maximum Injection Interval reservoir pressure increases that would be expected at artificial penetration locations within the AOR. These expected reservoir pressure increases are then compared to the calculated reservoir pressure increase that would be required to displace a mud or weighted fluid column in a wellbore such that fluids would be driven into the USDW.

Drilling mud in an abandoned wellbore is a barrier to vertical migration of native or injected fluids from the Injection Zone because of the hydrostatic pressure differential between the mud column and the Injection Zone reservoir pressure. One purpose of drilling mud is to control or overcome the formation pressures of the geologic stratum penetrated. To accomplish this, the hydrostatic gradient of the mud column must be equal to or greater than the equivalent of the formation pressure encountered. To determine the pressure or gradient exerted by a column of mud, a reported or estimated value of the mud weight in the wellbore is required. A review of available data indicates a range of mud weights used for drilling and plugging wells in this part of Bee County. Typical mud weights recorded as used for plugging exceed 9.0 lb/gal, but in cases where mud weights are not provided, that value is assumed. The pressure gradient increases in direct proportion with the weight of the fluid. A mud weight of 9.0 lb/gal would result in a pressure gradient of approximately 0.468 psi/ft of depth. Before vertical migration of fluids from an abandoned wellbore can occur, the Injection Zone reservoir pressure at the abandoned wellbore (plugged only with mud) would have to increase to that pressure necessary to displace a 9.0 lb/gal mud column. This is considered to be a very conservative figure since the mud gel strength, the resistance of the mud to flow, borehole conditions, and other factors have not been considered.

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The top of the Het Sand Injection Interval reservoir is at approximately 3,070 feet BGL at the proposed UEC WDW-447 location. At the shallowest position within the AOR, the Het Sand is approximately 2,993 feet BGL. Using this shallower reference depth of approximately 2,993 feet BGL (equivalent to 2,863 feet MSL from Plate V-3) for the top of the Injection Interval reservoir, the pressure exerted by a mud column of that height, less 50 feet of fall-back, at a wellbore filled only with 9.0 lb/gal mud would be 1,377 psi ([2,993 ft - 50 ft] x 0.468 psi/ft). The native formation, prior to injection into the reservoir, is estimated to be approximately 1,335 psi at a depth of 2,993 feet BGL, using an assumed gradient of 0.446 psi/ft. The formation pressure increase at 2,993 feet BGL would have to exceed 42 psi (1,377 psi – 1,335 psi) before any movement of reservoir fluids into a wellbore would be possible. Below this 42 psi Injection Interval reservoir pressure increase, there is no potential for movement of reservoir fluids into a wellbore, or vertically into any USDWs. This **42 psi** pressure increase thus defines the limits of the area of the COI. The COI is not represented in Figure VII-2 which depicts the pressure increase in the reservoir after thirty years of operational life at maximum injection rates for WDW-447, WDW-448 and Map ID No. 75. As observed in Table VII-5, the COI is expected to extend less than seven feet away from WDW-447 (and WDW-448 since both wells are modeled at the same injection rate).

VII.A.9 Historical Pressure Analysis

There is no historical analysis of the pressure effects of injection by the UEC wells, as they have not yet been installed.

VII.A.10 Potentiometric Surface and Regional Gradient

The UEC Injection Zone includes the Het Sand, which includes the uppermost Frio Formation. The Frio Formation hydrogeologic system has been mapped on a regional basis. A hydrologic head map of the upper Frio Formation is provided as Figure V-18, referencing sands from 4,000 to 6,000 feet depth. Although these strata are below the UEC Injection Zone, similar features are expected in the Het Sand. The regional flow direction of this deep saline aquifer system is toward the southeast below the UEC facility (see Figure V-18). Regional topography and stratigraphic porosity trends appear to be the driving forces governing regional flow patterns. The deep basin system appears normally pressured, and discharge points, if any, for the deep basin system have not been determined.

VII.A.11 Waste Plume Geometry Justification

The UEC Injection Interval strata are primarily composed of high porosity sandstone. The porous media of the sand strata results in the plume moving away from the wells in a radially homogeneous, isotropic formation. For the waste plume geometry, a radial flow solution to the waste plume geometry is therefore employed.

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VII.A.12 Waste Plume Extent

The calculated extent of the UEC waste plumes projected ten years from the present can be determined by using the analytical solution presented below. The predicted positions of each UEC injection well waste front over time were calculated, assuming a continuous maximum rate of 200 gpm injected into each well for ten years into the future (permit period) and thirty years into the future (projected life of each well). This provides a worst-case plume size determination, as it is very unlikely that each well will inject into the future at a maximum rate of 200 gpm, as discussed in Section VII.A.7).

The radial distance of displacement was calculated using the following equation:

$$r = \sqrt{\frac{Q}{\pi h \phi}} \quad \text{(TWDB, 1983)}$$

where:

r = radial distance of fluid front from well, feet;
Q = cumulative volume of fluid injected, cubic feet (ft^3)
ϕ = porosity of receiving formation; and
h = thickness of formation, feet.

For the ten year and thirty year projected timeframes the variables for each well are:

Q = Projected volume for 10 years = 1,051,200,000 gal (3,650 days x 1,440 min/day x 200 gpm)
= 140,545,440 ft^3
Q = Projected volume for 30 years = 3,153,600,000 gal (3,653 days x 1,440 min/day x 200 gpm)
= 421,636,320 ft^3
ϕ = 24 percent effective porosity
h = 400 feet (modeled reservoir thickness).

Thus, the ten year plume front for each UEC well has a radius of

$$r = \sqrt{\frac{140{,}545{,}440\ ft^3}{(\pi)(400\ ft)(0.24)}} = 683\ ft$$

and the thirty year projected plume front for each UEC well has a radius of

$$r = \sqrt{\frac{421{,}636{,}320\ ft^3}{(\pi)(400\ ft)(0.24)}} = 1{,}182\ ft$$

An estimate of the influence of dispersion was made with the following equation:

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$$r' = r + 2.3\sqrt{Dr}$$

where

r' = radial distance of travel with dispersion

D = dispersion coefficient; 3 feet for sandstone aquifers.

Thus, the ten year plume front for each UEC well, including dispersion, has a radius of

$$r' = 683 \text{ ft} + 2.3\sqrt{(3\ ft)(683 \text{ ft})}$$

$$\mathbf{r' = 787 \text{ ft}}$$

And the thirty year plume front for each UEC well, including dispersion, has a radius of

$$r' = 1{,}182 \text{ ft} + 2.3\sqrt{(3\ ft)(1{,}182 \text{ ft})}$$

$$\mathbf{r' = 1{,}319 \text{ ft}}$$

The worst-case radial distances of displacement, including dispersive effects, for the projected ten year and thirty year waste plumes is determined to be 787 feet and 1,319 feet, respectively, from each UEC injection well. As the proposed UEC injection wells are located approximately 5,500 feet apart, no significant interference between waste plumes is anticipated, and thus no deviation from the circular shapes of the plumes was calculated.

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TABLE VII-1

SUMMARY OF INJECTION ZONE CHARACTERISTICS

Uranium Energy Corporation
Bee County, Texas

	INJECTION ZONE	
	Injection Interval	***Containment Interval***
Stratigraphic Unit	Het Sand within the Frio Formation	Anahuac Formation
Estimated Subsurface Interval (ft)	3,070 - 3,900 GL	2,940 - 3,070 GL
Estimated Total Thickness (ft)	700	130
Dominant Lithology	sandstone	shale
Bottomhole Pressure (psi)[1]	1,369 @ 3,070′ (estimated)	-
Pressure Gradient (psi/ft)[1]	0.446 (estimated)	-
Min. Est. Frac. Pressure (psi)[2]	2,153 at 3,070′ (calculated)	-
Fracture Gradient (psi/ft)[2]	0.701 (calculated)	-
Bottom Hole Temperature (°F)[3]	131	-
Temperature Gradient (°F/ft)[3]	0.02	-
Permeability (mD)[4]	700 (estimated)	< 0.01
Porosity (%)[4]	30 (estimated)	10

Notes: GL - relative to ground level

[1] based on 0.446 psi/ft

[2] based on MASIP calculation spreadsheet inputs

[3] based on regional temperature gradient map and 70 ºF surface temperature

[4] based on regional Frio data (Galloway and others [1983], INEOS)

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TABLE VII-2

FRIO FORMATION BRINE ANALYSIS
FROM INEOS WDW-163

Uranium Energy Corporation
Bee County, Texas

Component	Concentration mg/liter
Barium	16
Bicarbonate	177
Calcium	2,160
Chloride	50,700
Magnesium	220
Potassium	150
Sodium	28,130
Strontium	272
Sulfate	87

Note: TDS estimated to be approximately 86,700 mg/L (TDI, 2020).

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Table VII-3

Maximum Allowable Surface Injection Pressure (MASIP)

Uranium Energy Corporation

Bee County, TX

Date:	11/1/2024
Permit Number:	WDW-447
Permittee:	UEC
Analyst:	VASB

Reservoir Characteristics	
Reservoir Depth (ft)	3070
Reservoir Pressure (psig)	1369
Poisson's Ratio	0.36
Overburden Gradient	0.9
----------*Calculated Results*----------	
Fracture Gradient (psi/ft)	0.7014
Hydraulic Pressure Head (psi)	1463
Fracture Pressure (psig)	**2153**

Frictional Pressure Loss in Tubing	
Injected Fluid Density (lb/gal)	9.163
Specific Gravity	1.1
Fluid Viscosity (cp)	1.1
Tubing ID (inches)	4.0
Tubing Length (ft)	2920
Relative Roughness (inch/inch)	1.50E-04
Injection Rate (gpm)	200
----------*Calculated Results*----------	
Reynolds Number	1.58E+05
Friction Factor	1.74E-02
Frictional Pressure Loss (psi)	29

Maximum Allowable Surface Injection Pressure (psi) 590

Includes 100 psi Factor of Safety

Excludes tubing friction loss

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TABLE VII-4

Pressure Model Input Parameters
Uranium Energy Corporation
Bee County, TX

Parameter	Het Sand Value	Source
Transmissivity (T)	7,393 gpd/ft	Calculated by PRESS2
Flow Capacity (FC)	200,000 mD-ft	Calculated
Thickness (b)	400 feet	Estimated from Plate V-4
Storativity (S)	2.75 E-4	Calculated by PRESS2
Intrinsic Permeability (k)	500 mD	Conservative Estimate
Injectate Fluid Viscosity (μ)	0.61 cP at 131 °F	Upper Frio brine analysis
Total Compressibility (Ct)	6.0 E-6 psi^{-1}	Typical value
Effective Porosity (ϕ)	0.24	Conservative Estimate

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TABLE VII-5

Pressure Increase Due to Injection Into UEC Injection Wells

Uranium Energy Corporation

Bee County, TX

Pressure Increase Due to Injection

Date	12/05/2024
Job Number	24-145
Permit Number	WDW-447 & WDW-448
Permittee Name	UEC
Permit Reviewer	VASB
Porosity (decimal fraction)	0.240
Permeability (md)	500.0
Thickness (ft)	400.0
Specific Gravity (ratio)	1.1
Rock Compressibility (1/psi)	3e-06
Fluid Compressibility (1/psi)	3e-06
Viscosity (cp)	0.610

Injection Wells Information, showing the time after injection started in years

Injection Rate (gpm)

	X (ft)	Y (ft)	1 yrs	10 yrs	30 yrs	31 yrs	35 yrs
WDW-447	0.0	0.0	200.00	200.00	200.00	0.0	0.0
WDW-448	5394.0	-696.0	200.00	200.00	200.00	0.0	0.0
Map ID No. 75	2320.0	-1096.0	29.16	29.16	29.16	0.0	0.0

Pressure Increase (psi)

	X (ft)	Y (ft)	1 yrs	10 yrs	30 yrs	31 yrs	35 yrs
WDW-447	0.0	1.0	36	43	46	10	6
WDW-448	5394.0	-695.0	36	43	46	10	6
Map ID No. 75	2320.0	-1095.0	20	27	30	10	6
1/2 Mile	0.0	2640.0	14	22	25	10	6
1 Mile	0.0	5280.0	12	19	22	10	6
1.5 Miles	0.0	7920.0	10	17	20	10	6
2 Miles	0.0	10560.0	9	16	19	10	6
2.5 Miles	0.0	13200.0	7	14	18	10	6
3 Miles	0.0	15840.0	6	13	17	10	6
WDW-447 (7 ft away)	0.0	7.0	31	38	41	10	6

Transmissivity (gpd/ft): 7393.44

Storage Coefficient: 2.7454E-04

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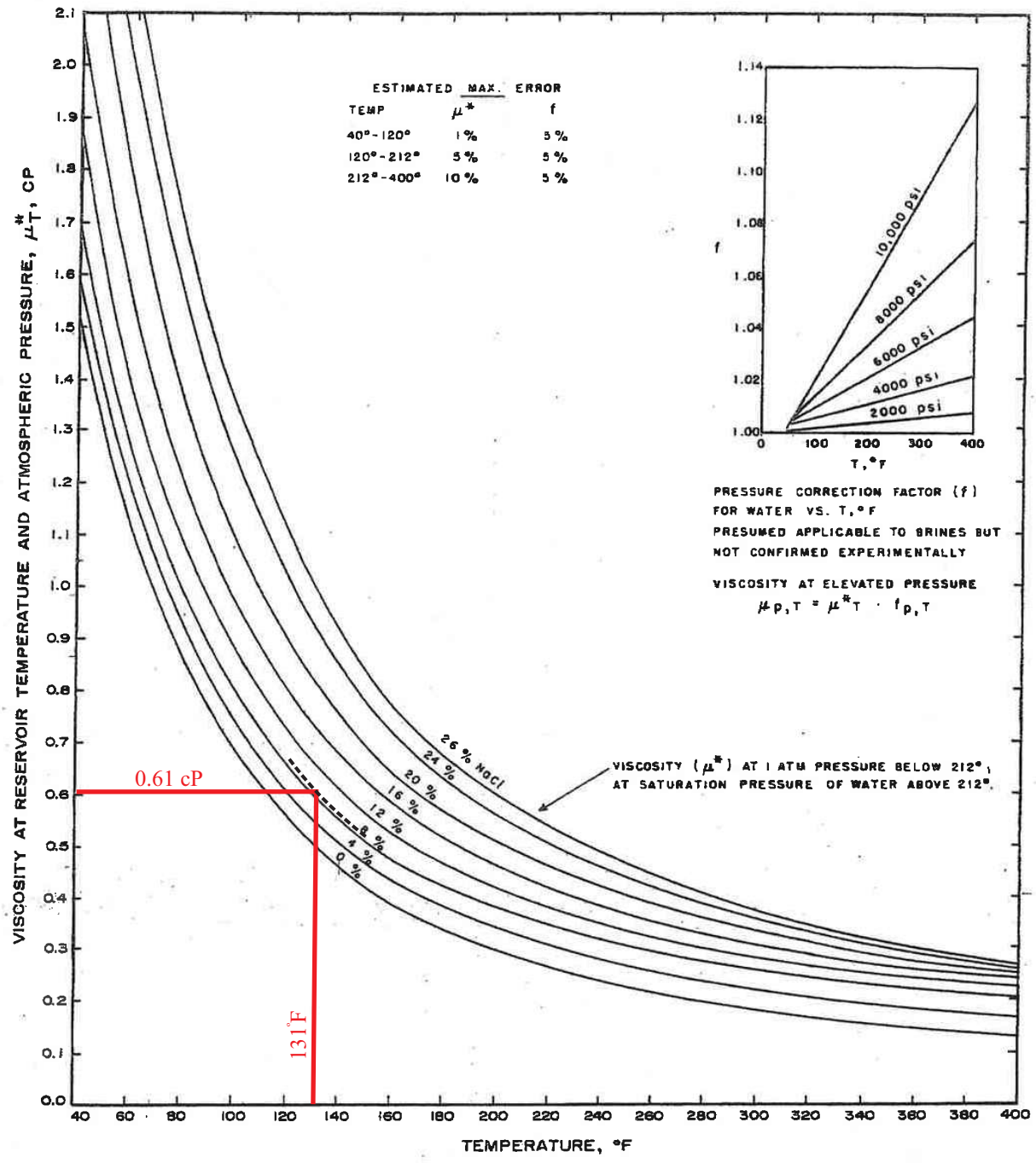

Fig. D.35 Water viscosity at various salinities and temperatures. After Matthews and Russell, data of Chesnut.[18]

FIGURE VII-1

WATER VISCOSITY AT VARIOUS TEMPERATURES AND SALINITIES

PREPARED FOR

URANIUM ENERGY CORPORATION BEE COUNTY, TEXAS

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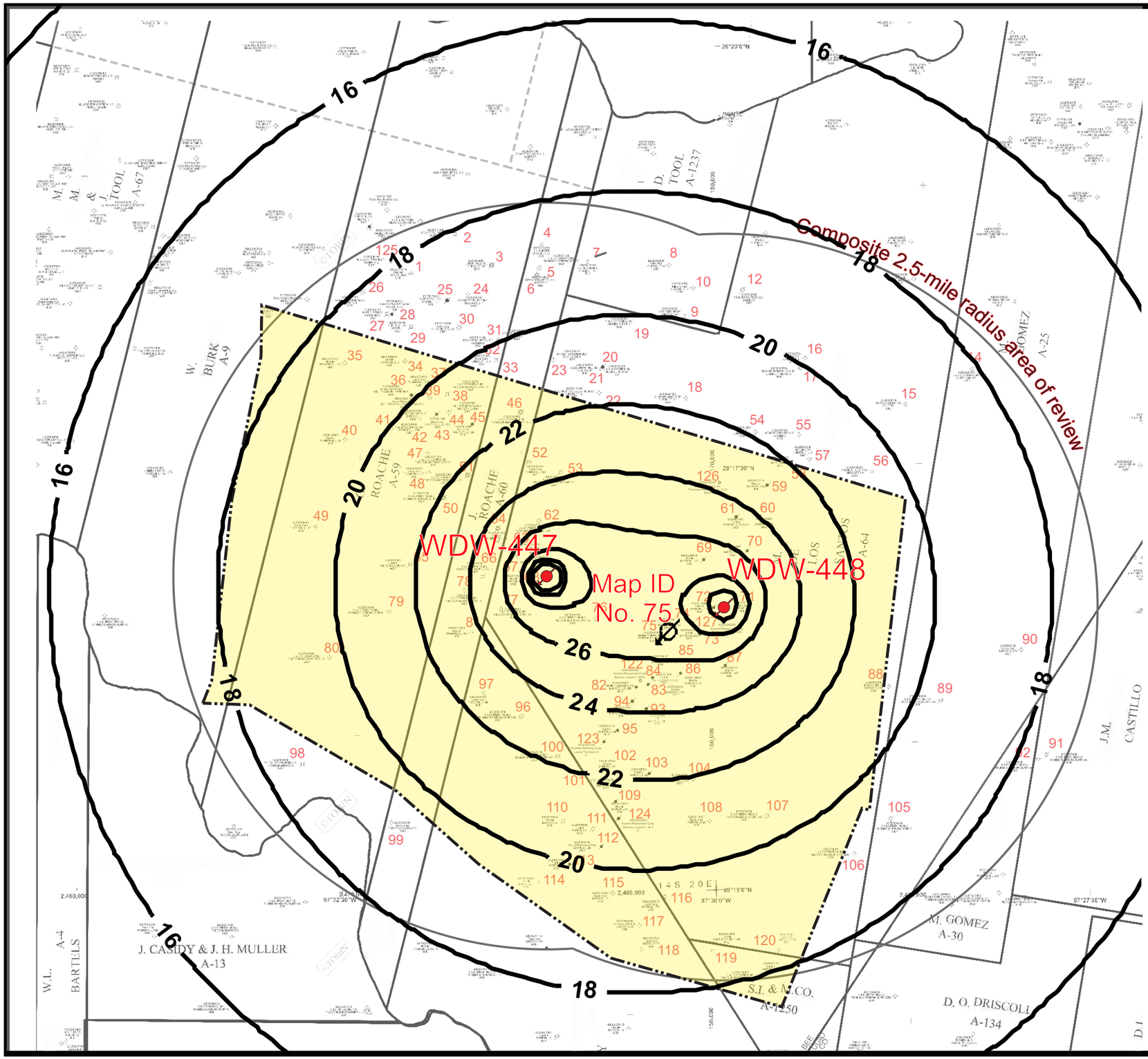
Modified from Earlougher, 1977

Drawing No.:	Figure VII-4
Date:	10/30/2024
Job No.:	24-145

Drawn By:	VASB
Designed By:	VASB
Checked By:	SKW



EXPLANATION

- Class I Disposal Well, Proposed
- New Suspended Or Temp. Abd.
- Dry & Abandoned
- Oil Well
- Oil Well, Abandoned
- Gas Well
- Gas Well, Abandoned
- New SVC & Salt Water Injection
- Wet Gas or Condensate Well
- Location
- 44 Area of Review (AOR) Well Identification No.

20 Pressure increase after 30 years (psi)

42 Cone of influence (42 psi), not observed

Contour Interval = 2 psi

Project Area

N

TOBIN

0.5 0 0.5 1 1.5 Miles

1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

Projection: Datum: NAD 1927 Projection:NAD 1927 UTM Zone 14N
10,000-foot ticks: Datum: NAD 1927 Projection: StatePlane Texas South Central FIPS 4204

FIGURE VII-2

TERRA DYNAMICS INC

PREDICTED RESERVOIR PRESSURE INCREASE AFTER THIRTY YEARS OF MAXIMUM INJECTION

PREPARED FOR

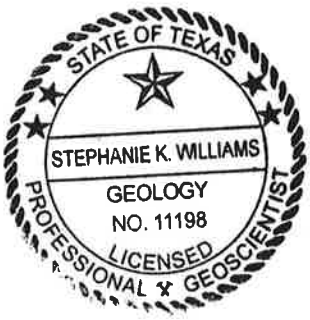
URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

DRAWN BY: VASB	SCALE: As Indicated	DATE: 12/05/2024	
DESIGNED BY: VASB		JOB NO.: 24-145	© 2024
CHECKED BY: SKW			

Geoscientist Seal

Signature by Texas Professional Geoscientist

I, Stephanie K. Williams, the undersigned state: As an employee of Terra Dynamics Incorporated that I am authorized to prepare this document (***VIII. Area of Review Report***) and that this document (***VIII. Area of Review Report***) was prepared under my supervision and direction. All facts stated herein are true, correct and complete to the best of my knowledge. The geosciences information, calculations and analyses attested to in this document (***VIII. Area of Review Report***) were prepared in accordance with generally and currently accepted geosciences principles and practices. The information specifically covered by this seal includes Pages VIII-1 to VIII-5, Tables VIII-1 to VIII-2 and Plates VIII-1 to VIII-2 as they relate to the Permit Application to Dispose of Waste in a Class I Injection Well, Permit Renewal Application [WDW-447 and WDW-448] for the Uranium Energy Corp., Burke Hollow Facility, Bee County, Texas.



Stephanie K Williams — 12/19/2024

Signature — Date

Licensed Professional Geoscientist
#11198, State of Texas
Terra Dynamics Incorporated
Texas Registered Engineering Firm
F-3501

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VIII. AREA OF REVIEW REPORT

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VIII. AREA OF REVIEW REPORT

Uranium Energy Corp (UEC) has prepared this Area of Review (AOR) report for the permit renewal application for proposed wells WDW-447 and WDW-448. The AOR is comprised of the composite radius within 2.5 mile of the proposed well locations.

VIII.A. Area of Review Map

The UEC AOR consists of those areas within the composite of each 2.5-mile radius around proposed WDW-447 and WDW-448 well locations. A base map showing the location, name, number and depth of the non-freshwater artificial penetrations in the AOR is included as Plate VIII-1. Information regarding depths, well names and well numbers are keyed from the map to Table VIII-1, which is a tabulation of data on all non-freshwater penetrations withing the 2.5-mile AOR. A USGS map showing the locations of freshwater artificial penetrations is included as Plate VIII-2. Plate VIII-2 also shows all surface bodies of water, springs, mines (surface and subsurface), quarries and other pertinent surface features, including residences and roads. Information regarding state well names, owner, well use, depth and date of completion are keyed from the map on Plate VIII-2 to Table VIII-2. No surface fault traces are shown on this map, as no subsurface faults in the AOR are known to have surface expression.

Exploration, Oil and Gas Wells

A total of 124 non-freshwater artificial penetrations (exploration, oil and/or gas wells) have been identified within 2.5-miles of the UEC facility injection wells. This number does not include the proposed WDW-447 and WDW-448 UEC wells. The protocol used to conduct the artificial penetrations identification, location and plugging adequacy review for the UEC AOR is included in Section VIII.B. The subject wells are plotted on Plate VIII-1 and information concerning the wells is summarized in Table VIII-1 and included in Appendix D.

Water Supply Wells

A total of 23 freshwater artificial penetrations have been identified within the AOR. For water well information within the search area, researched sources include: 1) Texas Water Development Board (TWDB) maps and records, and 2) TCEQ Library reports, bulletins and miscellaneous publications. Freshwater artificial penetrations are plotted on Plate VIII-2. A tabulation for the 23 freshwater artificial penetrations is included in Table VIII-2.

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VIII.B. Non-Freshwater Artificial Penetration Identification, Location, Condition and Search Protocol

The majority of the non-freshwater artificial penetrations identified within the 2.5-mile radius AOR penetrate the Confining and/or Injection Zones, as they were drilled to the underlying Vicksburg Group. All of the non-freshwater artificial penetrations have been located on Plate VIII-1 as discussed above. All of the non-freshwater artificial penetrations are included in Table VIII-1 and it is notated whether they do not penetrate the Confining and/or Injection Zone.

Three non-freshwater artificial penetrations and one undrilled surface location (Map ID No. 12, 21, 80 and 96) are included in the tabulation on Table VIII-2 and plotted on Plate VIII-2, however the wells do not penetrate the Confining and/or Injection Zones. The conditions of the 120 non-freshwater artificial penetrations which penetrate the Confining and/or Injection Zones have been further ascertained and are discussed in Section VIII.C.

Protocol for Non-Freshwater Artificial Penetration Identification and Location

The records researcher utilizes both public and private sources of data to identify artificial penetrations. In accordance with 30 TAC §331.121(a)(2)(A), a search of the artificial penetrations within the UEC composite 2.5-mile radius AOR was conducted and updated through October 20, 2024. A list of types of records searched during the artificial penetrations' identification, location and plugging adequacy review for the AOR is included in Appendix D.

VIII.C. Well Tabulation and Records

A tabulation of data on all non-freshwater artificial penetrations within the composite AOR which do and do not penetrate the Confining and/or Injection Zones are included as Table VIII-1. All wells within the composite AOR are tabulated by unique Map ID numbers, keyed to the base map included as Plate VIII-1. Information provided on these wells in Table VIII-1 includes well operator, lease name, well number, date drilled/date plugged, total depth, casing size, casing depths, cement sacks used, well type and current status and plugging data.

Completion and plugging records for the wells which penetrate the UEC Confining and/or Injection Zones within the AOR are included in Appendix D. These records include those required by the Railroad Commission of Texas (drilling, completion, plugging, etc.) and available scout tickets on each well, and provide information regarding casing size, setting depth, and surface, intermediate and long string casing/liner cement records and plugging records.

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VIII.D. Well Schematics and Records of Non-Freshwater Artificial Penetrations

There are 124 non-freshwater artificial penetrations within the UEC AOR. There are 120 non-freshwater wells which penetrate the Confining Zone and or the Injection Zone. As detailed in Section VII.A.8, the Cone of Influence extends less than seven feet from WDW-447 and WDW-448. There are no non-freshwater artificial penetrations within the Cone of Influence.

There are a total of 124 artificial penetration locations identified on Plate VIII-1 which are in the UEC 2.5-mile AOR. Map ID No. 12, 21, 80 and 96 do not penetrate the Confining Zone, Injection Zone or Injection Interval. All remaining artificial penetrations are either adequately plugged and abandoned or completed in such a manner that they pose no threat to the USDW. Well records indicate that at a minimum, each plugged and abandoned well is plugged with mud-laden fluid (minimum of 9.5 lb/gal mud) or is cased across the Injection Interval.

Operating Wells

There are three operating oil and/or gas wells within the 2.5-mile radius AOR. Of these, one produces gas (Map ID No. 39) and one produces oil (Map ID No. 36).

Salt Water Disposal Wells

There are four UIC Class II injection wells utilized for salt water disposal within the AOR which penetrate the UEC Confining and or Injection Zones. Three of these wells are plugged (Map ID No. 28, 86 and 103) and one is shut in (Map ID No. 75).

Shut In Wells

There is one shut in oil well within the 2.5-mile radius AOR, in addition to the previously mentioned salt water disposal well (Map ID No. 75). This well is listed in Table VIII-1 and shown on Plate VIII-2 and is identified as Map ID No. 82.

Plugged and Abandoned Wells

There are 67 plugged oil and/or gas wells within the AOR that penetrated the Confining and/or Injection Zones. These wells are listed in Table VIII-1 and shown on Plate VIII-2 by their Map ID numbers. The plugged wells include the following Map ID No.: 2, 3, 5, 19, 20, 25, 26, 27, 29, 30, 32, 33, 35, 37, 38, 43, 44, 45, 46, 50, 51, 52, 53, 58, 59, 60, 61, 62, 64, 65, 66, 67, 69, 70, 71, 72, 73, 74, 78, 79, 83, 84, 85, 87, 89, 91, 93, 94, 95, 98, 100, 102, 105, 107, 109, 110, 111, 112, 113, 115, 116, 121, 122, 123, 124, 125 and 127.

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Dry Holes

There are 46 plugged dry holes within the AOR that penetrate the UEC Confining and/or Injection Zones. These wells include the following Map ID No.: 1, 4, 6, 7, 8, 9, 10, 14, 15, 16, 17, 18, 22, 23, 24, 31, 34, 40, 41, 42, 47, 48, 49, 54, 55, 56, 57, 63, 68, 76, 77, 81, 88, 90, 92, 97, 99, 101, 104, 106, 108, 114, 117, 118, 119 and 120.

There are four artificial penetrations identified on Plate VIII-2 which are in the UEC 2.5-mile AOR for WDW447 and WDW-448 and do not penetrate the Confining and or Injection Zone. Map ID No. 12, 21, 80 and 96 do not penetrate the Confining Zone. The remaining 120 artificial penetrations within the COI penetrate the Confining Zone and or Injection Zone. There are no non-freshwater artificial penetrations within the Cone of Influence. There are no artificial penetrations within the Area of Review that are not adequately plugged and abandoned, or are completed in such a manner that they pose a threat to the USDW. Well records indicate that at a minimum, each plugged and abandoned well is plugged with mud-laden fluid or is cased across the Injection Interval.

VIII.E. Potential Problem Wells

There are no wells within the composite AOR that are improperly constructed or abandoned (potential problem wells), which would allow the movement of fluids into or between the USDW due to pressure increases in the Injection Zone as a result of operation of the proposed UEC injection wells. Well records indicate that, at a minimum, each well is plugged with a mud-laden fluid; most are also plugged with cement plugs.

Furthermore, there are no non-freshwater artificial penetrations within the calculated UEC Cone of Influence (a pressure increase of 42 psi). As detailed in Section VII.A.8, the Cone of Influence extends less than seven feet from WDW-447 and WDW-448. Therefore, there are no inadequately constructed or abandoned problem wells that penetrate the UEC Injection Zone within the calculated Cone of Influence.

VIII.F. Corrective Action Plan for Problem Wells

No corrective action plan for any problem wells is presented, as there are no inadequately constructed or abandoned problem wells that penetrate the UEC Injection Zone within the calculated Cone of Influence. No wells are known to exist within the calculated Cone of Influence that could result in endangerment to the USDW as a result of the projected increased pressures in the Injection Zone due to operation of the UEC wells.

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VIII.G. Proposed Ambient Monitoring Plan

There is no indication that ambient monitoring is needed to assess or monitor the potential for fluid movement from the UEC wells or the Injection Zone. Therefore, no ambient monitoring plan is proposed for these permit renewals.

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TABLE VIII-1
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Current Status	Casing/Cementing Data				Plugging Cement Data			Mud Data	
					Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
1	Pan Am Ira Heard #3 API # 4202502792	11/13/67 11/13/67	5,000	Dry Hole	Surface	8 5/8	303	0	NR	NR	0 – 525 941 – 1,632	Y	9.4
2	Mego Resources, LLC Sasser #4 API # 4202533738	11/9/10 4/21/2014	5,210	Gas Well Plugged	Surface Production	8 5/8 4 ½	815 5,150	3 3	325 1,013	Surface Surface	3-13 12-870 1,342-1,450 3,380-3,678	Y	9.5
3	Union Prod. Co. J. Chesnutt #2 API # 4202501543	7/2/45 5/23/65	4,869	Gas Well Plugged	Surface Production	9 5/8 5 ½	979 4,858	0 0	650 400	NR	0 – 35 4,669 – 4,869	Y	10.2
4	G. I. Warren J. Chesnutt #1 API # 4202501546	10/26/41 12/1/41	5,220	Dry Hole	Surface	10 3/4	535	0	NR	NR	NR	Y	NR
5	C & E Operating Inc. Thomson-Barrow Corp. #5 API # 4202532770	6/15/96 8/11/05	5,402	Gas Well Plugged	Surface Production	8 5/8 4 ½	632 2,926	4 4	275 600	Surface Surface	3 – 13 588 – 750 948 – 1,320	Y	10.0
6	Mego Resources, LLC Sasser #5 API # 4202533756	5/4/11 5/4/11	5,190	Dry Hole	Surface	8 5/8	840	NR	NR	NR	NR	Y	10.1
7	J. G. McCarrick J. Chesnutt #1 API # 4202501554	9/30/53 10/1/53	5,512	Dry Hole	Surface	10 3/4	1,008	0	NR	NR	908 – 1,008 1,250 – 1,350	Y	NR
8	Varn Petroleum Chesnutt #1 API # 4202530335	1/13/75 1/13/75	5,305	Dry Hole	Surface	8 5/8	424	0	NR	NR	0 – 10 376 – 476 1,450 – 1,550	Y	NR
9	Northern Pump J. Chesnutt #1 API # 4202501555	8/15/55 9/25/55	5,485	Dry Hole	Surface Production	9 5/8 5 ½	529 4,710	0 0	NR	Surface	1 – 400 CIBP@4,050 CIBP@4,250	Y	NR
10	Killam & Hurd J. Chesnutt #1 API # 4202502488	5/3/66 5/3/66	5,417	Dry Hole	Surface	10 3/4	100	0	NR	Surface	200 – 300 1,500 – 1,600	Y	NR
12*	Mego Resources, LLC Sasser #1 API # 4202533659	6/10/09 8/7/12	2,530	Gas Well Plugged	Surface	8 5/8 2 7/8	309 2,500	0 0	620 220	Surface Surface	0 – 2,076	N	--

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TABLE VIII-1 (contd.)
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Current Status	Casing/Cementing Data				Plugging Cement Data			Mud Data	
					Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
14	C & E Operating Inc. White Ranch #2 API # 4202532874	2/18/98 9/15/99	5,711	Dry Hole	Surface Production	8 5/8 4 ½	665 5,670	0 0	285 628	Surface Surface	4 – 14 950 – 1,050 1,600 – 1,700 4,850 – 4,950	Y	9.8
15	Petrus Operating Welder #1 API # 4202531901	9/3/83 9/3/83	6,000	Dry Hole	Surface	8 5/8	1,698	0	890	Surface	0 – 10 650 – 750 1,650 – 1,750 5,500 – 5,700	Y	10.0
16	Galaxy Oil J. Chesnutt #1 API # 4202530167	11/2/72 11/4/72	5,718	Dry Hole	Surface	8 5/8	534	0	280	Surface	0 – 30 485 – 585 1,457 – 1,600	Y	10.1
17	Harkins-Double U Oil Co. Chesnutt Heirs #1A API # 4202530257	12/30/73 12/31/73	5,581	Dry Hole	Surface	8 5/8	337	0	212	Surface	0 – 10 277 – 377 1,500 – 1,600	Y	10.3
18	Selby-Walker Corp. J. Chesnutt #1 API # 4202502472	10/21/50 10/21/50	5,486	Dry Hole	Surface	10 3/4	632	0	NR	NR	Surface 1,476 – 1,600	Y	NR
19	C & E Operating Inc. J. Hughes #2FLP API # 4202532952	7/22/99 8/23/2013-	5,400 PB 3,834	Gas Well Plugged	Surface Production	8 5/8 4 ½	567 3,866	4 4	350 776	Surface Surface	Surface 4-14 517-617 1,000-1,100 1,475-1,575 3,250-3,450	Y	10
20	C & E Operating Inc. J. W. Hughes #1FLP API # 4202532823	8/26/97 8/20/13	4,246	Oil Well Plugged	Surface Production	8 5/8 4 ½	691 5,300	4 4	310 445	Surface Surface	4 – 14 750 – 850 1,100 – 1,300 2,320 – 2,550	Y	10.0
21*	C & E Operating Inc. Hughes #1R API # 4202533848	--	5,500	Undrilled Surface Location	Surface	--	--	--	--	--	--	--	--
22	Flournoy Prod & D. A. Hughes J. Chestnutt #1 API # 4202501563	3/4/63 3/5/63	5,365	Dry Hole	Surface	8 5/8	353	0	NR	NR	Surface 300 - 400 1,550 – 1,650	Y	NR
23	United Texas Petroleum Hughes #1FPL API # 4202533021	6/13/00 5/13/03	5,075	Dry Hole	Surface Production	8 5/8 4 ½	560 5,054	0 0	290 865	Surface Surface	3 – 15 662 – 1,037 1,396 – 1,625 4,550 – 4,800	Y	9.8
24	Canus Petroleum Inc. S. Chesnutt #1 API # 4202530267	6/27/74 9/12/80	5,010	Dry Hole	Surface Production	8 5/8 2 7/8	522 4,990	0 0	NR	NR	0 - 70	Y	9.9
25	Union Prod. Co. J. Chesnutt #1 API # 4202501542	6/8/52 5/20/65	5,303	Oil & Gas Well Plugged	Surface Production	8 5/8 5 ½	938 5,288	NR NR	320 325	NR	0 – 35 3,440 – 3,600 CIBP@4,800	Y	10.2

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TABLE VIII-1 (contd.)
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Current Status	Casing/Cementing Data				Plugging Cement Data			Mud Data	
					Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
26	Hamman Oil & Refining Co. C. Bauer #1 API # 4202532772	7/17/96 3/24/99	5,409	Gas Well Plugged	Surface Production	8 5/8 4 ½	547 4,990	3 3	225 900	Surface 570	3 – 13 492 – 600 1,253 – 1,375 2,125 – 2,260 2,657 – 2,792 3,597 – 3,746	Y	10.0
27	Fred W. Shield Ira Heard #3 API # 4202530001	2/6/69 2/27/71	5,122	Gas Well Plugged	Surface Production	11 ¾ 7	312 4,964	NR	NR	NR	0 – 60 1,358 – 1,518 4,410 – 4,570	Y	9.5
28	Hamman Oil & Refining Co. C. Bauer #3D (Previously Shield #4 Ira Heard) API # 4202530094	3/24/71 3/26/99	4,900 PB 3,500	SWD Plugged	Surface Production	9 5/8 5 ½	206 4,900	3 3	125 617	Surface Surface	3 – 13 103 – 256 647 – 750 1,238 – 1,350 3,249 – 3,390	Y	10.2
29	Shield Oil Co. I. Heard #1 API # 4202501541	1/29/42 1/28/72	5,320	Gas Well Plugged	Surface Production	10 ¾ 3 ½	674 5,110	0 0	NR NR	NR NR	0 – 100 2,826 – 3,640	NR	NR
30	Exxon Corp. S. Chesnutt #1B API # 4202531982	3/9/83 11/28/84	5,395	Gas Well Plugged	Surface Production	10 ¾ 7	1,468 5,136	0 0	910 1,625	Surface 100	1,331 – 1,520 3,620 – 1,100	Y	9.5
31	Mego Resources, LLC Sasser #3 API # 4202533703	3/17/10 3/24/10	4,863	Dry Hole	Surface	8 5/8	800	0	120	Surface	3 – 13 715 – 850 1,270 – 1,400 2,980 – 3,130	Y	10.1
32	Mego Resources, LLC Sasser #3A API # 4202533714	3/27/10 8/7/12	5,350 PB 2,630	Gas Well Plugged	Surface Production	8 5/8 2 7/8	826 5,300	0 0	310 1,220	Surface Surface	0 – 1,469	Y	15.8
33	Exxon Corp. S. Chesnutt #1 API # 4202530216	6/9/73 12/9/77	4,900	Gas Well Plugged	Surface Production	8 5/8 2 7/8	1,355 2,904	5 5	400 430	Surface Surface	5 – 60 1,305 – 1,405 1,459 – 1,795	Y	9.5
34	Humble L. Thompson #2 API # 4202502600	6/25/35 6/25/35	5,980	Dry Hole	Surface Intermediate Production	13 3/8 9 5/8 7	971 3,230 5,755	0 1,098 3,310	100 810 285	NR	1,050 – 1,200 3,135 – 3,300	Y	NR
35	Humble L. Thompson #1B API # 4202501540	2/7/57 7/31/71	5,430	Gas Well Plugged	Surface Production	9 5/8 5 ½	1,313 5,286	0 676	NR NR	NR	5 – 15 1,203 – 1,326 5,170 – 5,290	Y	10.0
36	Aurora Resources Corp. ARC – Thomson - Barrow #4 API # 4202533888	9/9/13 -	5,016	Oil Well	Surface Production Tubing	8 5/8 4 ½ 2 3/8	531 5,010 4,816	NA	232 995	Surface Surface	NA	NA	NA
37	Exxon Corp. L. Thomson #16B API # 4202531543	1/11/83 1/12/93	5,320	Gas Well Plugged	Surface Production	8 5/8 5 ½	1,376 5,312	3 3	665 680	Surface Surface	3 – 40 1,240 – 1,400 2,580 – 2,740	Y	9.6
38	C & E Operating Inc. Thomson-Barrow Corp. #11 API # 4202532826	2/25/96 6/14/01	4,909	Gas Well Plugged	Surface Production	8 5/8 2 7/8	650 3,001	3 3	295 795	Surface Surface	3 – 1,391	N	--

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TABLE VIII-1 (contd.)
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

					Casing Data				Plugging Cement Data			Mud Data	
MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Status	Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
39	Aurora Resources Corp. ARC – Thomson - Barrow Ranch #3 API # 4202533445	3/10/07 -	5,240	Gas Well	Surface Production Tubing	8 5/8 4 ½ 2 3/8	338 5,226 4,700	NA	150 1,305	Surface Surface	NA	NA	NA
40	Humble L. Thompson #4B API # 4202501539	5/10/57 5/10/57	5,204	Dry Hole	Surface	8 5/8	1,289	0	NR	NR	Surface 1,300	Y	NR
41	Mueller Engineering Corp. L. Thomson #23B API # 4202532498	12/15/88 12/15/88	2,860	Dry Hole	Surface	8 5/8	300	0	160	Surface	3 – 13 176 – 350 1,025 – 1,200	Y	9.6
42	Erskine Energy LLC Barrow #1 API # 4202533316	6/2/05 12/10/06	13,800	Dry Hole	Surface Production Production Liner Liner	20 13 3/8 9 5/8 7 5/8 5 ½	2,005 5,453 4,502 2,577 1,164	4 4 0 0 0	2,000 2,195 700 230 120	NR	3 – 13 700 – 800 1,040 – 1,150 1,885 – 2,055 4,600 – 4,800	NR	NR
43	Exxon Corp. L. D. Thompson #10B API # 4202530174	5/29/79 9/8/89	4,965	Oil Well Plugged	Surface Production	8 5/8 5 ½	636 4,965	0 0	400 1,050	Surface Surface	5 – 105 580 – 700 1,090 – 1,210 1,462 – 1,609 1,500 – 1,609	Y	9.8
44	Mueller Engineering Corp. L. Thomson #24B API # 4202532634	2/20/92 3/18/93	3,000	Gas Well Plugged	Surface Production	8 5/8 2 7/8	308 2,996	3 3	180 770	Surface Surface	3 – 2,996	N	--
45	Exxon Corp. L. Thomson #12B API # 4202530188	1/3/73 1/27/75	5,144	Oil Well Plugged	Surface Production	8 5/8 5 ½	1,542 5,132	4 4	490 240	NR	10 – 60 1,442 – 1,590 1,442 – 1,590 4,717 – 4,835	Y	9.8
46	C & E Operating Inc. Thomson-Barrow Corp. #15TC API # 4202532859	12/4/97 3/10/13	3,078	Gas Well Plugged	Surface Production	8 5/8 4 ½	454 2,127	4 4	245 416	Surface Surface	4 – 14 650 – 750 947 – 1,300 1,800 – 1,950	Y	10.0
47	C & E Operating Inc. Thomson-Barrow Corp. #7 API # 4202532777	8/7/96 8/7/96	2,910	Dry Hole	Surface	8 5/8	350	3	190	Surface	3 – 13 300 – 400 1,285 – 1,400	Y	9.9
48	Exxon Corp. L. Thomson #13B API # 4202530194	3/11/73 3/13/73	4,922	Dry Hole	Surface	8 5/8	1,424	0	225	Surface	3 – 30 1,350 – 1,720 2,600 – 2,900 4,750 – 4,922	Y	9.5
49	Exxon Corp. L. Thomson #18B API # 4202532033	11/29/83 12/7/83	9,000	Dry Hole	Surface Intermediate Production	10 3/4 7 5/8 5 ½	1,618 5,310 1,482	0 0 0	800 395 160	Surface Surface Surface	0 – 45 1,257 – 1,600 4,634 – 4,840 6,004 – 6,130	Y	9.5

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TABLE VIII-1 (contd.)
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Status	Casing Data				Cement Data			Mud Data	
					Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
51	C & E Operating Inc. Thomson-Barrow Corp. #1CT API # 4202532758	2/26/96 8/30/13	5,511	Gas Well Plugged	Surface Production	8 5/8 4 ½	612 5,393	4 4	230 865	Surface Surface	3 – 13 550 – 750 1,050 – 1,190 1,650 – 1,875	Y	10.0
52	Exxon Corp. L. Thomson #14B API # 4202530240	8/22/84 4/5/94	5,417	Gas Well Plugged	Surface Production	7 7/8 4 ½	1,037 5,407	0 0	325 865	Surface	0 – 15 1,250 – 1,450 1,732 – 1,930	Y	10.0
53	Aurora Resources Corp. ARC – Thomson - Barrow Ranch #2 API # 4202533444	4/25/07 4/3/12	3,200	Gas Well Plugged	Surface Production	8 5/8 2 7/8	350 3,200	3 3	327 710	Surface Surface	3 – 1,902	Y	9.5
54	Carrl Oil J. Chestnut #1 API # 4202502825	11/30/62 12/1/62	5,791	Dry Hole	Conductor Surface	10 3/4 8 5/8	31 288	0 0	NR	NR	Surface 700 – 800 1,550 – 1,700	Y	NR
55	Mego Resources, LLC Sasser #2 API # 4202533676	10/17/09 10/18/09	6,100	Dry Hole	Surface	8 5/8	826	0	310	Surface	3 – 10 650 – 886 1,049 – 1,150	Y	9.1
56	Orion Oil & E. L. Cox J. Chesnutt #1 API # 4202501260	5/28/61 5/28/61	5,780	Dry Hole	Surface	8 5/8	100	0	40 38	NR	58 – 158 1,500 – 1,600	Y	NR
57	Harkins Co. J. Chesnutt #2 API # 4202502450	10/3/65 10/3/65	5,660	Dry Hole	Surface	10 ¾	330	NR	NR	NR	0 – 10 274 – 380 1,623 – 1,750	Y	NR
58	Harkins Co. J. Chesnutt #1 API # 4202502449	9/18/65 5/29/74	6,015	Oil Well Plugged	Surface Production	10 ¾ 5 ½	357 5730	0 373	NR	NR	0 – 14 322 – 422 1,500 – 1,600 5,490 – 5,590	Y	9.5
59	Humble L. Barrow #21B API # 4202502451	5/1/66 7/20/71	5,630	Oil Well Plugged	Surface Production	7 5/8 2 7/8	530 5,621	0 0	140 1,150	Surface Surface	5 – 15 5 – 50 5,345 – 5,514	Y	10.0
60	Humble L. Barrow #15B API # 4202502452	9/5/63 6/1/79	5,650	Oil Well Plugged	Surface Production	7 5/8 2 7/8	502 5,622	3 3	NR	NR	3 – 5,553	Y	9.5
61	Humble Laura T. Barrow #22 API # 4202502733	9/23/66 7/20/71	5,590	Oil Well Plugged	Surface Production	8 5/8 2 7/8	506 5,566	0 0	NR	NR	5 – 15 5 – 30 5,280 – 5,506	Y	10.0
62	C & E Operating Inc. Thomson-Barrow Corp. #4C API # 4202532822	4/29/97 8/17/12	5,509	Gas Well Plugged	Surface Production	8 5/8 2 7/8	647 4,462	4 4	305 1,000	Surface Surface	0 – 2,530	Y	10.0
63	Exxon Corp. L. Thomson #15B API # 4202531430	11/1/80 4/9/86	6,000	Dry Hole	Surface Production	8 5/8 2 7/8	1,544 5,982	0 1,615	690 980	Surface 1,800	6 – 40 1,338 – 1,600 2,544 – 2,870 4,041 – 4,204	Y	9.5

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TABLE VIII-1 (contd.)
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Status	Casing Data				Cement Data			Mud Data	
					Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
64	Humble L. Thomson #5B API # 4202502477	2/23/64 8/2/71	6,000	Gas Well Plugged	Surface Production	8 5/8 2 7/8	1,986 5,269	0 0	825 290	 2,506	5 – 15 5 – 30 4,480 – 4,860	Y	10.0
65	Humble Laura D. Thomson #7 API # 4202502760	3/10/67 11/30/72	4,000	Gas Well Plugged	Surface Production	8 5/8 2 7/8	517 2,264	4 4	NR	NR	4 – 64 4 – 64 300 – 554 425 – 554 1,550 – 1,896 1,740 – 1,896	Y	9.5
66	C & E Operating Inc. Thomson-Barrow Corp. #17 API # 4202532876	3/27/98 12/11/03	3,000	Gas Well Plugged	Surface Production	8 5/8 4 ½	378 2,974	4 4	235 645	Surface Surface	3 – 13 790 – 1,200 2,300 – 2,410	Y	9.7
67	C & E Operating Inc. Thomson-Barrow Corp. #2C API # 4202532820	5/5/78 6/4/01	3,000	Gas Well Plugged	Surface Production	8 5/8 4 ½	414 2,969	4 4	235 560	Surface Surface	3 – 14 992 – 1,150 1,267 – 1,425 1,585 – 1,782	Y	9.5
68	Humble L. Thomson #1 API # 4202501564	7/5/32 7/5/32	6,160	Dry Hole	Surface Production	20 13 3/8	182 1,310	0 0	NR	NR	NR	Y	NR
69	Humble L. Barrow #12B API # 4202502480	7/26/63 6/5/79	5,600	Oil Well Plugged	Surface Production	7 5/8 2 7/8	501 5,583	0 0	160	Surface	0 – 5,497	Y	9.5
70	Humble L. Barrow #13B API # 4202501264	8/11/63 5/16/67	5,650	Oil Well Plugged	Surface Production	7 5/8 2 7/8	506 5,620	0 0	15 5	Surface Surface	27 – 567 5,403 – 5,553	Y	9.5
71	Humble L. Barrow #19B API # 4202502447	6/15/65 1/9/93	5,600	Oil Well Plugged	Surface Production	7 5/8 2 7/8	545 5,591	3 3	225 564	Surface Surface	3 – 12 1,020 – 1,500 5,100 – 5,480	Y	9.5
72	Humble L. Barrow #11B API # 4202501562	7/8/63 1/31/89	5,601	Oil Well Plugged	Surface Production	7 5/8 2 7/8	511 5,601	0 0	NR	NR	4 – 1,400 5,200 -,5,542	Y	9.8
73	Humble L. Barrow #20B API # 4202502484	12/9/65 11/5/76	5,585	Oil Well Plugged	Surface Production	7 5/8 2 7/8	534 5,575	4 4	140 950	Surface Surface	4 – 5,530	N	--
74	Humble L. Barrow #9B API # 4202502479	5/28/63 6/24/80	5,650	Gas Well Plugged	Surface Production	7 5/8 2 7/8	506 5,614	0 0	NR	NR	5 – 4,516	Y	9.5
75	Mueller Engineering Corp. Laura T. Barrow #31B API # 4202532499	8/14/89 -	5,562 PB 5,380	SWD Shut In	Surface Production Tubing	8 5/8 4 ½ 2 3/8	562 5,559 2,017	NA	205 1,075	Surface Surface	NA	NA	NA
76	C & E Operating Inc. Thomson-Barrow Corp. #3C API # 4202532821	4/13/97 6/1/01	5,509	Dry Hole	Surface Production	8 5/8 4 ½	636 5,490	4 4	305 784	Surface Surface	3 – 14 1,428 – 1,757	Y	9.5

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TABLE VIII-1 (contd.)
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Status	Casing Data				Cement Data			Mud Data	
					Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
77	C & E Operating Inc. Thomson-Barrow Corp. #14C API # 4202532945	4/23/99 4/23/99	3,000	Dry Hole	Surface	8 5/8	420	4	185	Surface	3 – 13 366 – 466 900 – 1,000 1,145 – 1,250	Y	9.8
78	C & E Operating Inc. Thomson-Barrow Corp. #13 API # 4202532843	9/19/97 10/11/04	3,209	Gas Well Plugged	Surface Production	8 5/8 2 7/8	325 3,006	4 4	240 652	Surface Surface	3 – 1,792	N	--
79	C & E Operating Inc. Thomson-Barrow Corp. #8 API # 4202532789	11/23/96 5/31/01	5,259	Gas Well Plugged	Surface Production	8 5/8 4 ½	632 4,842	4 4	275 580	Surface Surface	4 – 14 1,200 – 1,300 1,317 – 1,475	Y	9.5
80*	C & E Operating Inc. Thomson-Barrow Corp. #19 API # 4202532896	6/11/98 6/11/98	2,200	Dry Hole	Surface	8 5/8	364	4	195	Surface	3 – 13 272 – 414 820 – 945 1,100 – 1,200	NR	NR
81	Humble L. Thomson #6B API # 4202502478	3/10/65 3/10/65	4,600	Dry Hole	Surface	8 5/8	554	0	175	NR	0 – 10 400 – 600 1,500 – 1,700	Y	NR
82	Mueller Engineering Corp. Laura T. Barrow #32B API # 4202532832	1/31/98 -	5,610 PB 5,550	Oil Well Shut In	Surface Production Tubing	8 5/8 4 ½ 2 3/8	591 5,605 5,520	NR	260 825	Surface Surface	CIBP@5,550	NR	NR
83	Humble L. Barrow #17B API # 4202502482	10/29/64 8/15/73	5,575	Oil Well Plugged	Surface Production	7 5/8 2 7/8	530 5,561	4 4	175 365	Surface Surface	51 – 541 5,378 – 5,528	Y	9.5
84	Humble Laura T. Barrow #23B API # 4202502734	9/23/66 1/14/93	5,585	Oil Well Plugged	Surface Production	7 5/8 2 7/8	538 5,585	0 0	140 1370	NR	3 – 4,043	N	--
85	Mueller Engineering Corp. L. Barrow #8B API # 4202501561	5/4/63 10/13/98	5,630	Oil Well Plugged	Surface Production	7 5/8 2 7/8	501 5,623	3 3	125 454	Surface Surface	5 – 150 700 – 1,000 1,200 – 1,500 4,900 – 5,200	Y	10.0
86	Humble L. Barrow #7B API # 4202501560	12/15/72 10/09/01	5,720 PB 3,560	SWD Plugged	Surface Production Tubing	7 5/8 2 7/8 1 ½	512 5,687 2,600	3 3 1,990	125 430	Surface Surface	3 – 13 462 – 562 900 – 1,000 1,450 – 1,550 2,238 – 2,600	Y	9.5
87	Humble L. Barrow #10B API # 4202502453	6/9/63 12/7/77	5,695	Oil Well Plugged	Surface Production	8 5/8 2 7/8	507 5,671	5 4	NR	NR	4 – 35 4 – 2,513 4 – 2,513	Y	9.5
88	Humble O&R Co. L. Barrow #26B API # 4202530093	4/19/71 4/22/71	5,912	Dry Hole	Surface Tubing	8 5/8 2 3/8	606 1,709	0 0	490	NR	0 – 2,153	Y	11.1
89	C & E Operating Inc. Thomson-Barrow Corp. #5C API # 4202532830	7/31/97 12/10/10	5,985	Gas Well Plugged	Surface Production	8 5/8 4 ½	654 5,107	4 NR	610 335	Surface Surface	4 – 14 795 – 1,150 4,700 – 4,850	Y	9.5
90	Exxon Corp. L. Barrow #27B API # 4202530241	1/15/74 1/15/74	6,020	Dry Hole	Surface Tubing	7 5/8 2 7/8	1,073 1,652	0 0	325 NR	NR	0 – 1,652 3,200 – 3,500 5,700 – 6,000	Y	9.5

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TABLE VIII-1 (contd.)
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Status	Casing Data				Cement Data			Mud Data	
					Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
91	C & E Operating Inc. Thomson-Barrow Corp. #16C & 16T API # 4202532304	10/13/99 12/9/10	6,050	Duel Gas Well Plugged	Surface Production	8 5/8 4 ½	1,500 5,931	4 4	540 442	Surface 3,135	4 – 14 900 – 1,000 1,400 – 1,550 4,850 – 5,000 5,600 – 5,750	Y	9.5
92	C & E Operating Inc. Thomson-Barrow Corp. #15C API # 4202532290	7/27/99 7/27/99	3,880	Dry Hole	Surface	8 5/8	950	0	381	Surface	3 – 13 909 – 1,009 1,400 – 1,500	Y	10.0
93	Humble L. Barrow #6B API # 4202501559	9/14/61 8/15/73	5,710	Oil Well Plugged	Surface Production	7 5/8 2 7/8	524 5,678	4 4	NR	Surface Surface	4 – 40 1,472 – 1,760 2,960 – 3,320	Y	9.5
94	Humble Laura T. Barrow #24B API # 4202502741	10/3/66 8/16/73	5,585	Oil Well Plugged	Surface Production	7 5/8 2 7/8	523 5,571	4 4	140 NR	NR Surface	44 – 584 5,355 – 5,505	Y	9.5
95	Humble L. Barrow #14B API # 4202502481	8/24/63 8/27/79	5,610	Oil Well Plugged	Surface Production	7 5/8 2 7/8	505 5,563	0 0	NR	NR	15 – 565 670 – 1,570 2,819 – 4,680	Y	9.5
96*	C & E Operating Inc. Thomson-Barrow Corp. #23C API # 4202533107	4/17/01 12/1/10	2,000	Gas Well Plugged	Surface Production	8 5/8 2 7/8	500 1,686	4 4	275 475	Surface Surface	4 – 1,512	Y	9.8
97	Exxon Corp. L. Thomson #9B API # 4202530166	10/28/72 12/15/72	6,000	Dry Hole	Surface Production	8 5/8 2 7/8	650 5,371	5 5	400 2,030	Surface Surface	5 – 75 1,150 – 1,486 4,600 – 4,823	Y	9.5
98	Salida Exploration, LLC Thomson-Barrow #3 API # 4202533343	8/27/05 4/17/08	5,454	Gas Well Plugged	Surface Production	8 5/8 4 ½	1,006 4,020	0 0	280 235	Surface 3,130	0 – 13 650 – 750 820 – 1,060 3,755 – 3,905	Y	9.5
99	Exxon Corp. Laura Thomson #22B API # 4202532217	11/20/84 11/22/84	5,844	Dry Hole	Surface	8 5/8	1,220	0	750	Surface	1,050 – 1,125 1,200 – 1,240	Y	9.5
100	C & E Operating Inc. Thomson-Barrow Corp. #12C API # 4202532917	10/28/98 11/23/10	5,750	Gas Well Plugged	Surface Production	8 5/8 4 ½	950 4,606	4 4	365 545	Surface Surface	4 – 14 692 – 1,175 4,250 – 4,400	Y	9.5
101	Humble L. Barrow #18B API # 4202502483	6/13/65 6/13/65	5,775	Dry Hole	Surface	7 5/8	533	0	NR	NR	0 – 42 349 – 642 1,344 – 1,700	Y	NR
102	Humble L. Barrow #2B API # 4202501557	10/16/61 8/16/73	5,700	Oil Well Plugged	Surface Production	8 5/8 2 7/8	523 5,669	4 4	820 310	Surface Surface	42 – 582 1,627 – 1,777 5,292 – 5,442	Y	9.5
103	Humble L. Barrow #5B API # 4202501558	11/21/62 11/5/76	6,210	Oil Well SWD Plugged	Surface Production	7 5/8 2 7/8	506 6,172	4 4	NR	Surface Surface	10 – 5,562 0 – 1,695 4,678 – 6,172	N	--
104	Exxon Corp. L. Barrow #29B API # 4202532025	10/15/83 10/17/84	5,700	Dry Hole	Surface	8 5/8	1,509	0	750	Surface	10 – 24 1,450 – 1,585 5,400 – 5,700	Y	9.5

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TABLE VIII-1 (contd.)
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Status	Casing Data				Cement Data			Mud Data	
					Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
105	C & E Operating Inc. Thomson-Barrow Corp. #7 API # 4202532847	12/11/97 12/13/10	5,959	Gas Well Plugged	Surface Production	8 5/8 4 ½	613 5,102	4 4	585 305	Surface Surface	4 – 14 800 – 1,150 4,750 – 4,900	Y	9.5
106	C & E Operating Inc. Thomson-Barrow Corp. #20C API # 4202533007	1/28/01 1/29/01	6,150	Dry Hole	Surface	8 5/8	1,477	4	160	Surface	0 – 14 1,019 – 1,150 1,380 – 1,525	Y	10.0
107	C & E Operating Inc. Thomson-Barrow Corp. #6C & 6T API # 4202532848	10/9/97 5/27/11	5,850	Duel Gas Well Plugged	Surface Production	8 5/8 4 ½	637 5,486	4 4	305 615	Surface Surface	4 – 14 750 – 1,150 4,150 – 4,300 4,650 – 4,800	Y	10.0
108	Exxon Corp. L. Barrow #28B API # 4202531144	11/13/79 11/14/79	4,915	Dry Hole	Surface	8 5/8	1,212	0	708	Surface	4 – 30 1,076 – 1,350	Y	9.5
109	Humble L. Barrow #1B API # 4202501556	10/6/61 8/16/73	5,700	Oil Well Plugged	Surface Production	8 5/8 2 7/8	510 5,682	4 4	NR	Surface Surface	30 – 570 1,336– 1,488 5,430 – 5,580	Y	9.5
110	Humble L. Barrow #4 API # 4202501566	6/16/61 7/21/71	6,070	Gas Well Plugged	Surface Production	8 5/8 2 7/8	517 6,048	0 0	NR	NR	5 – 15 5 – 50 5,330 – 5,546	Y	10.0
111	Humble L. Barrow #6T & 6C API # 4202501568	8/28/61 8/10/73	5,700	Duel Gas Well Plugged	Surface Production	7 5/8 2 7/8	524 5,678	4 4	NR	NR	4 – 581 5,397 – 5,547	Y	9.5
112	Mueller Engineering Corp. L. Barrow 88 #5B API # 4202501567	12/21/62 10/12/98	6,200	Oil Well Plugged	Surface Production	7 5/8 2 7/8	522 6,181	3 3	125 250	Surface Surface	3 – 13 472 – 572 825 - 925 1,300 – 1,748 4,900 – 5,200	Y	10.0
113	Humble L. Barrow #3 API # 4202502108	5/22/61 7/27/71	6,157	Oil Well Plugged	Surface Production	8 5/8 2 7/8	578 6,127	0 0	NR	NR	5 – 15 5 – 30 5,370 – 5,581	Y	10.0
114	Humble L. Barrow #7 API # 4202501565	10/14/61 10/14/61	5,700	Dry Hole	Surface	8 5/8	498	0	NR	NR	485 510 – 1,600	Y	NR
115	Exxon Corp. L. Barrow #15 API # 4202531429	11/26/80 7/30/2015	5,710	Gas Well Plugged	Surface Production	8 5/8 2 7/8	1,218 5,704	3 3	570 1,950	Surface Surface	Surface 3-13 800-1,275 4,470-4,800	Y	9.5
116	Exxon Corp. L. Barrow #25B API # 4202530092	3/27/89 9/6/89	5,793	Gas Well Plugged	Surface Production	8 5/8 2 7/8	566 5,787	0 0	330 1,400	Surface Surface	4 – 4,900	N	--
117	Humble O&R Co. L. Barrow #10 API # 4202530168	10/7/72 10/9/72	5,800	Dry Hole	Surface	8 5/8	647	0	300	Surface	0 – 1,217	Y	9.5

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TABLE VIII-1 (contd.)
NON-FRESHWATER WELLS IN 2.5 MILE AREA OF REVIEW
Uranium Energy Corp
Bee County, Texas

MAP ID No.	Operator Well No. and Lease API Number	Date Drilled Date Plugged	Total Depth (feet)	Status	Casing Data				Cement Data			Mud Data	
					Type	Size (inches)	Depth (feet)	Removed (feet)	Volume (sacks)	Top of Cement (feet)	Plug Depth (feet)	Filled (Y/N)	Mud Weight (lb/gal)
118	Exxon Corp. L. Barrow #13 API # 4202530239	1/24/74 1/24/74	5,850	Dry Hole	Surface	8 5/8	1,198	0	375	Surface	0 – 30 1,040 – 1,308	Y	9.5
119	Humble Laura T. Barrow #4B API # 4202502906	4/23/62 4/23/62	6,150	Dry Hole	Surface	8 5/8	511	0	NR	NR	490 500 – 1,700 5,000 – 6,150	Y	NR
120	Exxon Corp. L. Barrow #30B API # 4202532026	10/26/83 10/28/83	5,770	Dry Hole	Surface	8 5/8	1,227	0	615	Surface	0 – 35 1,104 – 1,308	Y	9.5
121	Humble L. Barrow #16B API # 4202502711	5/25/64 5/31/72	6,712	Oil Well Plugged	Surface Production	8 5/8 2 7/8	532 6,694	0 0	NR	NR	30 – 40 0 – 4,800	Y	9.5
122	Aurora Resources Corp. Barrow Laura T. #B24 API# 4202580286	10/12/1966 8/16/1973	5,585	Oil Well Plugged	Surface	7 5/8 2 7/8	523 5,571	4 4	15 5	Surface Surface	44-584 5,355-5,505	Y	9.5
123	Humble Oil & Refining Co. Laura Thomson 5600 #4 Sand #2 API# 4202502106	10/24/1961 8/16/1973	5,700	Oil Well Plugged	Surface	8 5/8 9 5/8 2 7/8	523 5,669	4 4	15 5 5	NR	42-582 1,627-1,777 5,292-5,442	Y	9.5
124	Humble Oil & Refining Co. Laura Thomson-B1 API# 4202502093	10/6/1961 8/16/1973	5,700	Oil Well Plugged	Surface	8 5/8 95/8 2 7/8	510 5,682	4 4	15 5 5	NR	30-570 1,336-1,488 5,430-5,580	Y	9.5
125	HAMMAN OIL & REFINING Co. Bauer Chato #2 API # 4202532801	3/25/1999	5,400	Gas Well Plugged	Surface	8 5/8 4 1 /2 2 3/8	560 5,399	3 3	3 685	NR Surface	3-13 502-610 1,228-1,350 3,435-3,584 4,445-4,594	Y	10.2
126	C & E Operating Inc. Thomson-Barrow Corp. C #21 API # 4205033027	6/16/2000	6,500	Location	Undrilled Surface Location	--	--	--	--	--	--	--	--
127	Aurora Resources Corp. Barrow Laura T. -B- API # 4202580285	12/29/1965 11/5/1976	5,601	Oil Well Plugged	Surface	7 5/8 2 7/8	534 5,575	4 4	NR	NR	4-5,530	N	

12* - Well that does not penetrate the Injection or/or Confining Zone

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TABLE VIII-2
FRESHWATER WELLS IN 2.5-MILE AREA OF REVIEW
UEC Burke Hollow
Bee County, TX

STATE WELL#/TRACKING#	OWNER	WATER WELL USE	DEPTH	DATE OF COMPLETION
54828	ERSKINE ENERGY	RIG SUPPLY	255'	2/7/2005
54829	ERSKINE ENERGY	RIG SUPPLY	440'	2/9/2005
108414	AURORA RESOURCES CORP.	RIG SUPPLY	180'	2/22/2007
150941	SALIDA OIL & GAS	INDUSTRIAL	200'	8/18/2005
156106	SALIDA EXPLORATION	INDUSTRIAL	240'	6/28/2005
183310	HUMPAL RANCH	DOMESTIC	210'	5/23/2004
187983	MEGO RESOURCES, LLC	RIG SUPPLY	410'	6/9/2009
201739	MEGO RESOURCES, LLC	RIG SUPPLY	440'	9/29/2009
231868	MEGO RESOURCES, LLC	RIG SUPPLY	340'	9/16/2010
381874	URANIUM ENERGY CORP	DOMESTIC	140'	10/8/2014
381880	JOSEPHINE MILLER	DOMESTIC	220'	10/9/2014
415212	MCFADDIN ENTERPRISES, LLC	STOCK	400'	1/20/2016
448737	MCFADDIN ENTERPRISES	STOCK	200'	3/29/2017
495040	MCFADDIN ENTERPRISES	STOCK	160'	8/28/2018
573980	FAGEN INC	INDUSTRIAL	260'	4/14/2021
3890	UNKNOWN	OIL OR GAS	0'	UNKNOWN
20411	HUMBLE OIL and REFINING COMPANY	OIL OR GAS	5,426'	2/25/1957
7944601	MRS. JOSEPHINE CHESTNUTT	OIL OR GAS		UNKNOWN
7945401	JOSEPHINE CHESTNUTT	STOCK	110'	5/29/1964
7945701	WELDER-MCCAN	STOCK	150'	7/7/1935
7945703	WELDER-MCCAN	STOCK	150'	7/7/1935
7945704	WELDER-MCCAN	STOCK	150'	7/7/1935
20425	UNION PRODUCING COMPANY	OIL OR GAS	5,303'	5/21/1952

Composite 2.5-mile AOR

WDW-447 (proposed)

WDW-448 (proposed)

H.R. EYLES A-23

J. CLARK A-15

M. FOX A-24

T. QUIRK A-57

J. MCGEEHANS A-38

J. TOOL A-66

M. M. & J. TOOL A-67

D. TOOL A-1237

J.M. CASTILLO A-14

W. BURK A-9

M. GOMEZ A-25

J. MCGEEHANS A-45

G. ROACHE A-59

J. ROACHE A-60

M. DE LOS SANTOS A-64

C.E.P.I. & M. CO. A-117

C.E.P.I. & M. CO. A-120

J.M. CASTILLO A-10

C.E.P.I. & M. CO. A-118

M. POWER A-52

F. DIETERICH

& J.A. BAUMACHER A-18 & W. LANGE

W.L. BARTELS A-4

J. CASIDY & J. H. MULLER A-13

M. GOMEZ A-30

J. BURKE A-8

P. DOWNEY A-20

S.I. & M.CO. A-1250

D. O. DRISCOLL A-134

D.J. MITCHELL A-217

CUADRILLA IRRIG. CO. A-130

CUADRILLA IRRIG. CO. A-128

S.I. & M.CO. A-408

W. QUINN A-54

P. DOWNEY A-18

T. O'CONNER A-15

J. DOUGLAS A-19

T. HART A-28

BEE REFUGIO CO.

28°20'0"N

28°17'30"N

28°15'0"N

14S 20E

97°35'0"W

97°32'30"W

97°30'0"W

97°27'30"W

2,460,000

2,470,000

2,480,000

2,490,000

180,000

170,000

160,000

150,000

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MAP EXPLANATION

- Class I Disposal Well, Proposed
- New Suspended Or Temp. Abd.
- Dry & Abandoned
- Oil Well
- Oil Well, Abandoned
- Gas Well
- Gas Well, Abandoned
- New SVC & Salt Water Injection
- Wet Gas or Condensate Well
- Location

44 AOR Well Identification No.

Red - Penetrate Confining and/or Injection Zone
Blue - Do Not Penetrate Confining and/or Injection Zone

Project Area

△ New Wells
Current To: Jan 13, 2014

1:24,000

0.5 0 0.5 1 1.5 Miles

1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

Projection: Datum: NAD 1927 Projection:NAD 1927 UTM Zone 14N
10,000-foot ticks: Datum: NAD 1927 Projection: StatePlane Texas South Central FIPS 4204

N

TOBIN

Modified Base Map from P2Tobin Map Data

STATE OF TEXAS
STEPHANIE K. WILLIAMS
GEOLOGY
NO. 11198
LICENSED
PROFESSIONAL GEOSCIENTIST

Stephanie K. Williams
12/6/2024
Terra Dynamics Incorporated
F-3501

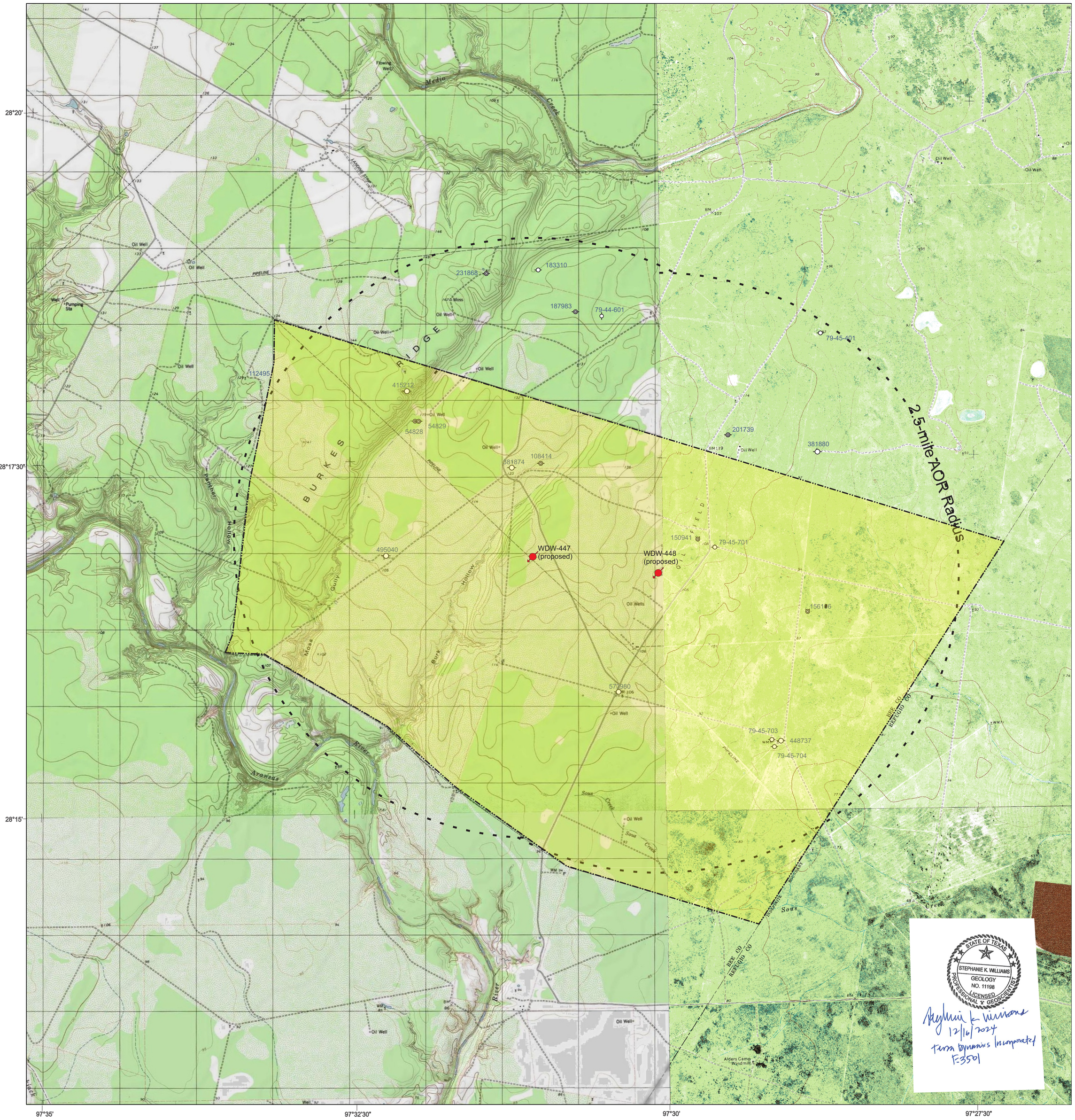
PLATE VIII-1

TERRA DYNAMICS INC

NONFRESHWATER ARTIFICIAL PENETRATION LOCATION MAP

PREPARED FOR
URANIUM ENERGY CORPORATION
CORPUS CHRISTI, TEXAS

DRAWN BY: HKD	SCALE: As Indicated	DATE: 12/2/2024	
DESIGNED BY: HKD		JOB NO.: 24-145	© 2024
CHECKED BY: SKW			



MN
GN
0° 44'
13 MILS
7 ½°
133 MILS

UTM GRID AND 1978 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Project Area

Proposed Injection Well Location

150941 Water Well Location and ID Number

- Domestic or Livestock Well
- Industrial Well
- Rig Supply Well
- Oil Test

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0.5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

- Primary highway, hard surface
- Secondary highway, hard surface
- Light-duty road, hard or improved surface
- Unimproved road
- Interstate Route
- U. S. Route
- State Route

Base Map prepared from: Burkes Ridge, Refugio SW, Papalote and Cranell, TX, 1974 USGS 7.5-Minute Topographic Maps

PLATE VIII-2

TERRA DYNAMICS INC

USGS FRESHWATER WELL LOCATION MAP

PREPARED FOR:

URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

DRAWN BY: HKD	SCALES: As Indicated	DATE: 12/2/2024	
DESIGNED BY: HKD		JOB NO.: 24-145	© 2024
CHECKED BY: SKW			

IX. WASTES AND WASTE MANAGEMENT

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IX. WASTES AND WASTE MANAGEMENT

This permit application is for a proposed facility located operated by Uranium Energy Corporation, located in Bee County, Texas. UEC has prepared this permit renewal application for proposed wells WDW-447 and WDW-448 for renewal of the authorization from the TCEQ to drill, construct and operate the Class I injection wells to inject the permitted composite waste stream.

IX.A. Waste Generation and Management Activities

The composite waste stream proposed for disposal at the UEC Burke Hollow facility will be composed of waste streams collected primarily from the in situ recovery (ISR) process for mining uranium. This section lists the individual waste streams which will constitute the composite waste stream propopsed for disposal via deep well injection at the Burke Hollow facility. The analytical data evaluated for this permit renewal application will be generated by a lab that the Texas Laboratory Accreditation Program (TLAP) has accredited under the National Environmental Laboratory Accreditation Conference (NELAC) standard for matrices, methods and parameters of analysis.

The waste streams requested for injection in WDW-447 and WDW-448 are listed below. No hazardous waste (as defined in 40 CFR Part 261) is planned for injection into the proposed wells.

1. Wastes generated from Burke Hollow Project to include barren lixiviant purge, eluat purge, well and filter backwash, aquifer restoration water, contaminated process area wastewater, and on-site laboratory waste.

2. Other associated wastes such as groundwater and rainfall contaminated by the above authorized wastes, spills of the above authorized wastes, and wash waters and solutions used in cleaning and servicing the waste disposal well system equipment which are compatible with the permitted waste streams, injection zone and well materials.

3. Wastes generated during well construction or closure of the well and associated facilities that are compatible with permitted wastes, injection zone and the well.

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IX.A.1 Waste Management Information Table

The waste streams proposed for injection into WDW-447 and WDW-448 are listed on Table IX.A. The source of each waste is on-site. The volumes shown for each individual waste stream are based on the proposed average volumes for the proposed wells.

Detailed Description of Waste Streams

This section details each individual waste stream to be disposed in WDW-447 and WDW-448, including description of the process generating each waste stream, source of each waste stream, generator name, exact point of generation, and pre-injection units in which the waste will be stored and processed prior to disposal.

Wastes Generated from the Burke Hollow Project:

The predominant waste stream at the Burke Hollow Facility is wastes generated through the in situ mining of uranium. Flow diagrams depicting the source of each waste stream and the pre-injection units used to store and process the waste are provided as Figure IX-1 and IX-2. The sources of the waste are described in this section.

Barren Lixiviant Purge

To control the movement of lixiviant within the ore zone, a fraction of the barren lixiviant will continuously be removed from the volume being pumped back to the injection wells, resulting in more lixiviant being pumped from the ore zone than injected. This bleed will create a cone of depression within the ore zone causing natural groundwater from the surrounding area to be drawn toward the wellfield. This negative pressure gradient holds or contains the lixiviant within the desired ore-bearing region. This prevents the excursion of lixiviant away from the wellfield and minimizes the dilution of lixiviant by uncontrolled fluid movement. Based on hydrologic studies, it is expected that the bleed rates will range approximately from 0.5 to 1.0 percent of the production flow rate. The bleed fluid will be disposed via the waste disposal well. One or more surge tanks will be installed at the satellite site to handle surge capacity in the bleed system. The UEC Burke Hollow facility is the generator of the barren lixiviant purge.

Eluat Purge

As the uranium-bearing lixiviant enters the Ion Exchange (IX) facility from the wellfield, if required, a booster pump upstream of the IX columns will pressurize the fluid to approximately 100 psig. The dissolved uranium in the lixiviant is chemically adsorbed onto the ion exchange resin in the IX columns. Any sand or silt contained in the lixiviant will be removed via bag filters, upstream of the IX columns. The barren lixiviant exiting the second stage IX vessel will

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normally contain between one to three ppm of uranium. This fluid will be pressurized, if required, to 100 psig by booster pumps prior to return to the wellfield for re-injection. The UEC Burke Hollow facility is the generator of the Eluat purge.

Well and Filter Backwash

The backwash water from the filter pods will be pumped to the backwash holding tank T-3 and the overflow from T-3 will be returned to the production pipeline ahead of the IX system. The UEC Burke Hollow facility is the generator of the well and filter backwash.

Aquifer Restoration Water

During wellfield restoration, an additional liquid waste stream will be generated. A bleed on this stream will be passed through a reverse osmosis (RO) or ED unit, which will generate a waste stream in which most of the dissolved solids in the total RO/ED stream are concentrated in 15 percent to 30 percent of the water volume. This stream will be routed to the waste disposal well. When water quality from the wellfield undergoing restoration improves sufficiently following uranium and radium removal, it will be blended into the wellfield restoration stream to expedite restoration in another portion of the wellfield. The UEC Burke Hollow facility is the generator of the aquifer restoration water.

Contaminated Process Area Wastewater

The bleed is taken after the IX columns have removed the uranium. The bleed stream and washdown water from the IX facility will be transferred to the waste disposal well via the wastewater circuit through a pipeline. Alternatively, the bleed may be routed to a reverse osmosis unit. The resulting RO brine (RO concentrate), may be commingled with other wastewater, for injection into the waste disposal well(s). The RO permeate is returned to the leaching circuit. This waste stream is generated on site at the UEC Burke Hollow facility.

On-site Laboratory Waste

Laboratory liquid waste is generated by collecting monitor well samples, wellfield production samples and samples collected from the satellite facility. All liquid waste generated from the laboratory is piped to the processing plant and pumped to the waste tank on the satellite facility pad where it will be permanently disposed of in the deep disposal well. All solid waste generated by the laboratory will be scanned for radiological contaminants. Material that exceeds contaminant levels will be disposed of as solid byproduct material. Solid waste that is not contaminated above release limits will be disposed at the local municipal waste facility. This waste stream is generated on site at the UEC Burke Hollow facility.

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Other Associated Wastes

Other minor wastes will be injected into the UEC injection wells. These wastes are minor (in terms of percent of the total injected volume) and defined as other associated wastes such as groundwater and rainfall contaminated by the above authorized wastes, spills of the above authorized wastes, and wash waters and solutions used in cleaning and servicing the waste disposal well system equipment which are compatible with the permitted waste streams, injection zone and well materials. These are wastes that will be generated through mixing with ground water or rainwater, spills, and wash waters and solutions used in cleaning and servicing. The volume of other wastes will represent a very small portion of the wastes injected over the lifetime of the injection wells. These wastes will be generated and disposed of in the injection wells on an as needed basis.

Wastes Generated During Well Construction or Closure of the Well and Associated Facilities That are Compatible with Permitted Wastes, Injection Zone and the Well Materials

Several minor wastes (in terms of percent of the total injected volume) are requested as part of this permit application. These include wastes generated during well construction or closure of the well and associated facilities that are compatible with permitted wastes, reservoir and the well. These are wastes generated as part of drilling the proposed wells, plugging and abandonment of the injection wells at the end of their lives, and closure of any injection well-related surface facilities. The volume of facility closure wastes will represent a small portion of the wastes injected over the lifetime of the injection wells. These wastes will be generated and disposed of in the injection wells at the well sites during construction and closure of the wells.

IX.A.2 Injected Waste Streams Table

The waste streams proposed for injection into WDW-447 and WDW-448 are listed on Table IX.B. Table IX.B includes a verbal description, EPA waste codes, EPA hazard codes (I, C, R, E, H, T), TCEQ waste classification (H, 1, 2 or 3) and TCEQ waste codes.

IX.A.3 Description and Analysis of Waste Streams

The primary waste stream generated for disposal at the UEC Burke Hollow facility is derived from the ISR process for uranium mining operations and aquifer restoration activities. Non-hazardous liquid waste generated by the ISR process and ground water restoration activities will be routed to settling tanks at the Burke Hollow site. While in the settling tanks, the wastewater will be regularly tested for wastewater constituents, before being disposed of via the deep well injection system. The process and restoration wastewater streams will mix in the pre-injection storage tank

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prior to injection into the disposal well. One or more of the individual waste streams may predominate during periods of extraction plant or aquifer restoration system shutdowns for maintenance, turnaround, closure, etc.

As the facility is proposed, detailed analysis of the individual waste streams is not available. The wastewater proposed for disposal in the new wells will be similar to the wastewater disposed in UEC's WDW-419 injection well located at its La Palangana facility in Duval County, Texas. A representative waste water analysis for WDW-419 is provided in Appendix E. The sample taken was analyzed by ACZ Laboratories, Inc. located in Steamboat Springs, CO. This lab is accredited by the State of Texas under the National Environmental Laboratory Accreditation Program (NELAP). The sampled waste was comprised of waste stream No. 1. Waste stream No. 2 and 3 are intermittent and are not continuously injected into the WDW-419 injection well.

The anticipated range in waste stream constituents for WDW-447 and WDW-448 is as follows:

Parameter	Units	Minimum	Maximum
Calcium	mg/L	479	895
Magnesium	mg/L	97	164
Sodium	mg/L	606	937
Potassium	mg/L	30	47
Carbonate	mg/L	0	0.3
Sulfate	mg/L	1,410	2,710
Chloride	mg/L	710	1,700
Nitrate	mg/L	0.03	0.023
Fluoride	mg/L	0.2	0.7
Silica	mg/L	29	56.3
Total Dissolved Solids	mg/L	3,510	6,230
Conductivity	Std. Units	4,540	8,130
Alkalinity	mg/L	76	499
pH	Std. Units	4	7.8
Arsenic	mg/L	0.001	0.004
Cadmium	mg/L	0.0005	0.0012
Iron	mg/L	0.1	9.6
Lead	mg/L	0.0219	0.0219
Manganese	mg/L	0.03	1.81

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Mercury	mg/L	U	U
Molybdenum	mg/L	0.84	8.04
Selenium	mg/L	0.081	0.3585
Uranium	mg/L	1.93	4.44
Radium-226	pCi/L	32	500

The individual waste stream ranges of pH, density, viscosity, and percentage of the total waste volume injected are listed below:

- Waste Stream No. 1: The deep well composite injectate will mainly be comprised of wastes resulting from the ISR process for mining uranium. In waste water analysis in 2024 for WDW-419, quarterly sample analyses reported a measured pH range of 5.72 to 7.18. The specific gravity of all the quarterly samples from 2024 was 1.004 sp. gr. at a temperature of 60 °F. Approximately 99% of the composite injectate is comprised of waste stream No. 1.
- Waste stream No. 2: UEC will inject other associated wastes intermittently. The wastes will be within the permitted limits for pH greater than 4.0 and less than 12.0. The specific gravity will not exceed the permitted limit of 1.10 centipoise as measured at 60°F. As the waste stream is not injected continuously, the percentage of total waste volume is less than 1% of the composite injectate waste stream.
- Waste stream No. 3: Wastes generated during well construction and closure of the well and associated facilities is a one-time waste. The volume is very small compared to the other waste streams and will be within permitted limits.

Laboratory Analysis of Injected Wastes: Included in Appendix E is a representative chemical analysis for UEC's WDW-419 injection well located at its La Palangana facility in Duval County, Texas. The waste stream sample was collected on December 29, 2011 and analyzed by ACZ Laboratories, Inc. located in Steamboat Springs, Colorado. The laboratory is accredited by the State of Texas under the National Environmental Laboratory Accreditation Program.

IX.A.4. New Waste Stream Compatibility Demonstration

No new waste streams are requested for UEC wells WDW-447 or WDW-448. The waste streams requested for injection into WDW-447 and WDW-448 are currently permitted and are currently injected in UEC's WDW-419 injection well located at its La Palangana facility in Duval County, Texas.

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IX.A.5. Waste Stream pH and Specific Gravity

The pH of the waste stream for injection shall range from 4.0 to 12.0. The specific gravity of the waste stream shall be less than or equal to 1.10 centipoise as measured at 60 °F. No other waste characteristic limits are requested for the proposed permits.

IX.A.6 Waste Analysis Plan and Table

Table IX.C provides a listing of sampling and analytical methods that will be employed in testing the injected waste stream for various chemical constituents. The table includes sampling location, sampling method, sample frequency, parameter, and test method for each waste constituent analyzed. Test methods listed in Table IX.C are methods specified in the current editions of EPA SW-846, ASTM or other methods accepted by the TCEQ.

The pH and specific gravity of each injected waste is monitored continuously at a minimum frequency of at least once every 24 hours. The treated composite waste stream is grab sampled and analyzed for pH and specific gravity. The treated composite waste streams are sampled at least once annually for specific physical and chemical parameters.

IX.A.7 Hazardous Wastes Subject to 40 CFR 148 Subpart B

None of the wastes to be injected is classified as hazardous and subject to federal land disposal restrictions, as each of the wastes to be injected is defined as a nonhazardous industrial waste.

IX.A.8 Hazardous Wastes Not Subject to 40 CFR 148 Subpart B

None of the wastes to be injected is classified as hazardous and subject to federal land disposal restrictions, as each of the wastes to be injected is defined as a nonhazardous industrial waste.

IX.A.9 Injection Well Summary Table

Table IX.D provides the status, design capacity, and number of years utilized for each of the proposed injection wells at the Burke Hollow facility.

IX.B. Waste Management (Hazardous Waste Injection Wells)

This section pertains to hazardous waste injection wells only; therefore, this section does not apply to UEC's permit applications.

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TABLE IX.A

WASTE MANAGEMENT SUMMARY

Uranium Energy Corporation
Burke Hollow Facility
Bee County, Texas

Individual Waste Stream	*Source*	*Volume (gal./year)*
1.Wastes generated from the Burke Hollow Project: a. Barren lixiviant purge b. Eluant purge c. Well and filter backwash d. Aquifer restoration water e. Contaminated process area wastewater. f. On-site laboratory waste	on-site	105,120,000[(1)] (each proposed well)
2. Other associated wastes such as groundwater and rainfall contaminated by the above authorized wastes, spills of the above authorized wastes, and wash waters and solutions used in cleaning and servicing the waste disposal well system equipment which are compatible with the permitted waste streams, injection zone and well materials.	on-site	see note below[(2)]
3. Wastes generated during well construction or closure of the well and associated facilities that are compatible with permitted wastes, reservoir and the well.	on-site	see note below[(3)]

Note: (1) Waste Stream No. 1 is continuous. Volumes stated are based on proposed maximum annual permitted injection volume at 200 gpm (each proposed well).
(2) Waste Stream No. 2 is non-continuous. The volume of waste generated by Waste Stream No. 2 will be minuscule in comparison to the other wastes injected.
(3) the generation of Waste Stream No. 3 will occur as a one-time-only waste and the volume of waste generated will be minuscule in comparison to the permitted injection volume at 200 gpm (each proposed well).

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TABLE IX.B

WASTE STREAM SUMMARY

Uranium Energy Corporation
Burke Hollow Facility
Bee County, Texas

Waste Number	Waste Stream	EPA Waste Codes	EPA Hazard Codes (I, C, R, E, H, T)	TCEQ Waste Classifications (H, 1, 2, 3)	TCEQ Waste Codes
1.	Wastes generated from the Burke Hollow Project to include: a. Barren lixiviant purge b. Eluant purge c. Well and filter backwash d. Aquifer restoration water e. Contaminated process area wastewater f. On-site laboratory waste.	Non-hazardous	Non-hazardous	Class 1 Non-hazardous	NA
2.	Other associated wastes such as groundwater and rainfall contaminated by the above authorized wastes, spills of the above authorized wastes, and wash waters and solutions used in cleaning and servicing the waste disposal well system equipment which are compatible with the permitted waste streams, Injection Zone and well materials.	Non-hazardous	Non-hazardous	Class 1 Non-hazardous	NA
3.	Wastes generated during well construction or closure of the well and associated facilities that are compatible with permitted wastes, Injection Zone and the well.	Non-hazardous	Non-hazardous	Class 1 Non-hazardous	NA

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TABLE IX.C

WASTE STREAM SAMPLING AND ANALYSIS SUMMARY

Uranium Energy Corporation
Bee County, Texas

Waste Number (From Table IX.B)	Sampling Location	Sampling Method	Frequency	Parameter	Test Method [4]
				General Parameters	
see note below[1]	injection wellhead [2]	grab	annually[3]	Conductance	120.1 & 9050
see note below[1]	injection wellhead [2]	grab	annually[3]	pH	9045
see note below[1]	injection wellhead [2]	grab	annually[3]	Total dissolved solids	160.1
see note below[1]	injection wellhead [2]	grab	annually[3]	Alkalinity as $CaCO_3$	SM 2320
see note below[1]	injection wellhead [2]	grab	annually[3]	Chloride	325.2 & 9251
see note below[1]	injection wellhead [2]	grab	annually[3]	Nitrate/Nitrite-N	353.1
see note below[1]	injection wellhead [2]	grab	annually[3]	Sulfate	375.4 & 9038
see note below[1]	injection wellhead [2]	grab	annually[3]	Calcium	200.7 & 6010
see note below[1]	injection wellhead [2]	grab	annually[3]	Potassium	200.7 & 6010
see note below[1]	injection wellhead [2]	grab	annually[3]	Magnesium	200.7 & 6010
see note below[1]	injection wellhead [2]	grab	annually[3]	Sodium	200.7 & 6010
see note below[1]	injection wellhead [2]	grab	annually[3]	Uranium (U_3O_8)	200.7 & 6010
				Radiation	
see note below[1]	injection wellhead [2]	grab	annually[3]	Radium 226	9315

[1] Injected wastewater samples are collected from a sample tap in the flowline to the injection wellhead and represent a composite sample of the waste stream typically injected.
[2] Samples are collected after filtration, unless filtration is unnecessary for injection.
[3] Samples are collected annually at the minimum.
[4] Equivalent or updated methods recognized by EPA or TCEQ may be substituted for any of these methods. Laboratory will be in compliance with requirements of 30 TAC Chapter 25.

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TABLE IX.D

INJECTION WELL SUMMARY

Uranium Energy Corporation
Burke Hollow Facility
Bee County, Texas

WDW Number	Status[1]	Injected Volume[2]	Maximum Permitted Injection Rate[3]	Number of Years Utilized	Date in Service
WDW-447	Proposed	-	105,120,000	0	-
WDW-448	Proposed	-	105,120,000	0	-

[1] Indicate only one of the following: Active, Inactive, Closed, or Proposed
[2] Total volume (gallons) injected into the well
[3] Gallons per year

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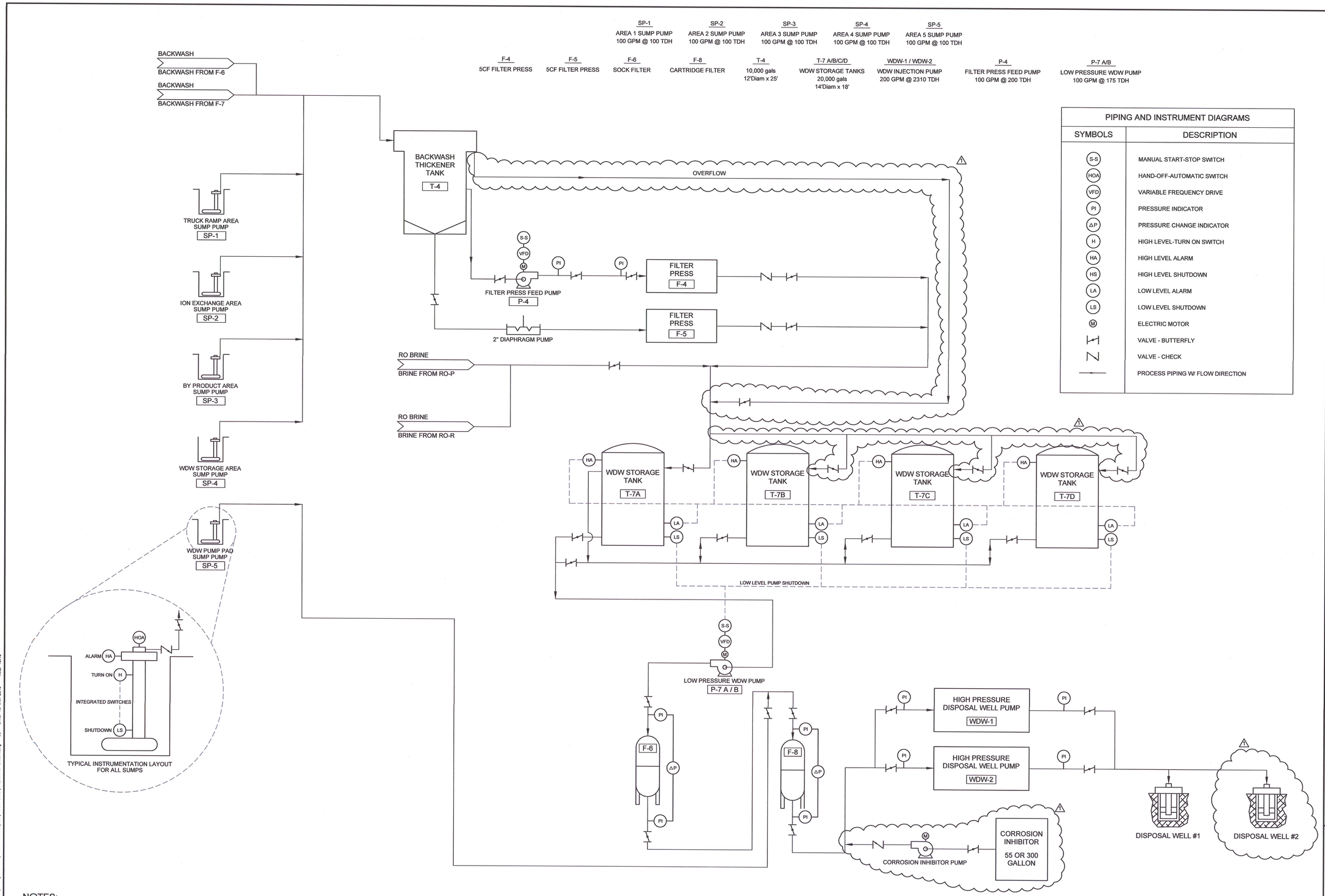


PIPING AND INSTRUMENT DIAGRAMS

SYMBOLS	DESCRIPTION
S-S	MANUAL START-STOP SWITCH
HOA	HAND-OFF-AUTOMATIC SWITCH
VFD	VARIABLE FREQUENCY DRIVE
PI	PRESSURE INDICATOR
ΔP	PRESSURE CHANGE INDICATOR
H	HIGH LEVEL-TURN ON SWITCH
HA	HIGH LEVEL ALARM
HS	HIGH LEVEL SHUTDOWN
LA	LOW LEVEL ALARM
LS	LOW LEVEL SHUTDOWN
M	ELECTRIC MOTOR
	VALVE - BUTTERFLY
	VALVE - CHECK
	PROCESS PIPING W/ FLOW DIRECTION

NOTES:

1. ALL PUMP FLOW RATES AND HEADS ARE NOMINAL VALUES AND MAY BE MODIFIED DURING FINAL DESIGN & CONSTRUCTION.
2. THE ENTIRE PROCESS AND ALL VALVES WILL BE OPERATED MANUALLY, UNLESS OTHERWISE SPECIFIED.

FIGURE IX-1

~~Figure XII-1~~

REV.	DATE	DESCRIPTION	DWN	CKD
1	1/12/15	Revisions Made for NOD #1	CB	CB
0	7/24/14	Submitted with Application	CB	CB

STATE OF TEXAS
CRAIG T. BORDOVSKY
104905
LICENSED
PROFESSIONAL ENGINEER
1-19-15

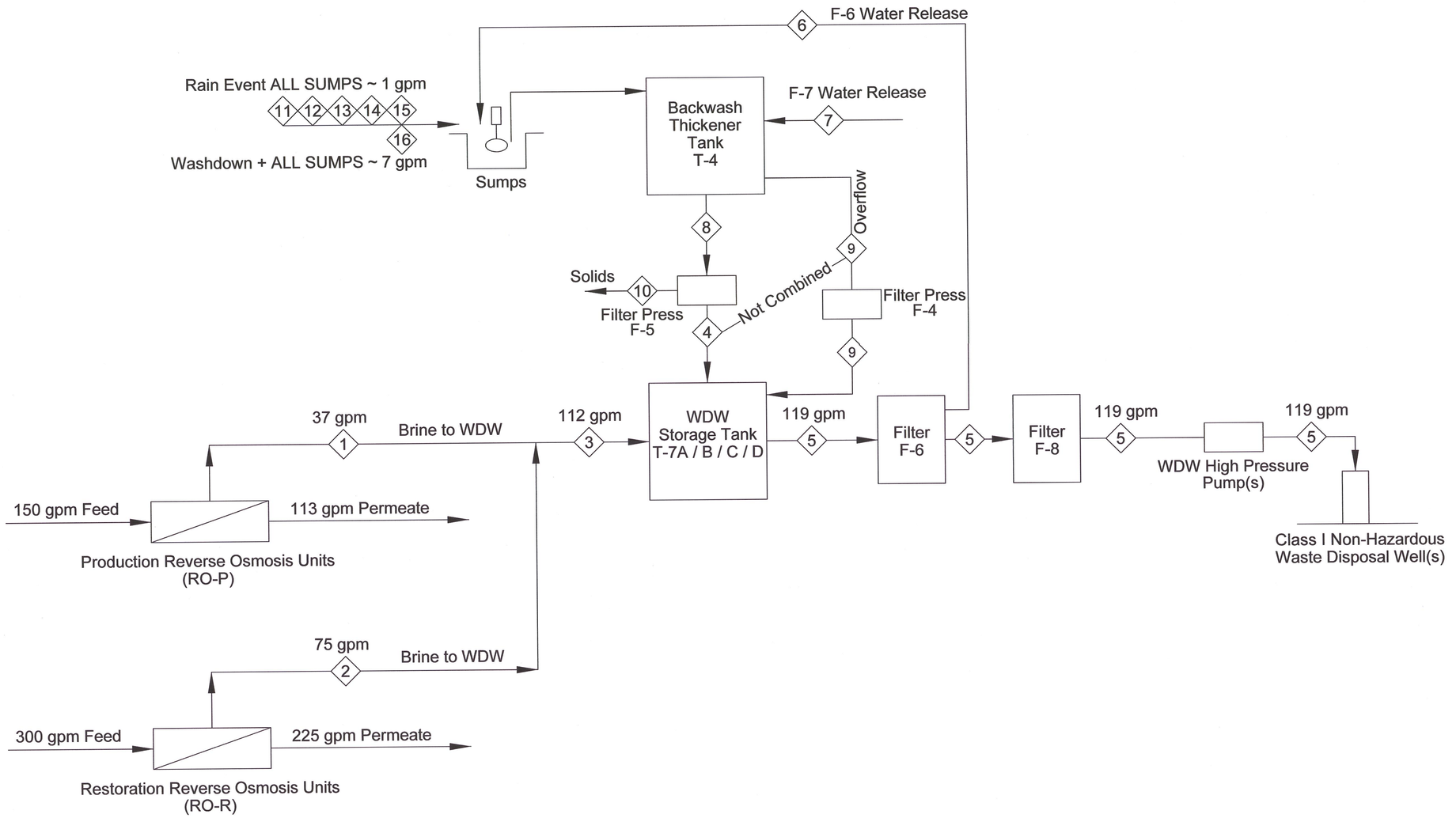
JOB NO. BH WDW
DATE: 5-5-14
SCALE: AS NOTED
APPROVED BY: CB
DRAWN BY: CB
DRAWING NO. XII-1

BURKE HOLLOW PROJECT
Satellite IX Facility

PIPING & INSTRUMENTATION DIAGRAM
WDW PRE-INJECTION UNITS

UEC
Uranium Energy Corp

UEC NAME: C:\I-UEC DATA\II-Projects+CAD\I-Burke-Hollow\CAD\I-WDW Docs\1-BHTX-W-01rev1.dwg CB DATE: 12 JAN 2015 TIME: 13:12



Normal Operation	Stream No	RO Brine 1 RO-P Brine to T-7 Tanks	RO Brine 2 RO-R Brine to T-7 Tanks	WDW 3 Total RO Brine to T-7 Tanks	WDW 4 F-5 Filtrate to T-7 Tanks	WDW 5 WDW Injection	By-Product Separation 6 Water Release from F-6 to T-4	By-Product Separation 7 Water Release from F-7 to T-4	By-Product Separation 8 Underflow from T-4 to F-4	By-Product Separation 9 Overflow from T-4 to T-7	By-Product Separation 10 F-5 Solid By-Product	Sumps & Washdown Water 11 Rain Event from SP-1	12 Rain Event from SP-2	13 Rain Event from SP-3	14 Rain Event from SP-4	15 Rain Event from SP-5	16 Washdown Water
1 mm #/yr																	
Total Mass	M lbs/day	449	7,203	7,653	84	7737	4.2	4.2	8.4	84		1	4	1	1	0	60
Uranium Oxide, U_3O_8	lbs/day	0.0	0.0	0	0.0	0						0	0	0	0	0	0
Chemical/Solids	lbs/day	0	0	0	0	0	25	15	40		40	0	0	0	0	0	0
Water	M lbs/day	450	7,203	7,654	84	7738	4.2	4.2	8.4	84		1	4	1	1	0	60
Total Volume	gallons (ft3)	54,000	108,000	162,000	10034	172034	500	500	1000	10,034		145.2	448.9	94.5	145.4	0	7200.0
Mass flow	lb/min	313	632	944	59	1003				59							
Volume Flow	gpm (cfm)	37.5	75	112.5	7.0	119				7							
Volume Flow Daily Average Rate	gpm (cfm)						0.35	0.35	0.69								
Volume Flow Rain Event	gpm (cfm)			0.00	0.00	0.00						0.10	0.31	0.07	0.10	0	5.00
Pressure	psig (in Hg abso	50	50	50	50	950				50		5	5	5	5	0	5
Temp	° F	70	70	70	70	70	70	70	70	70.0	70	70	70	70	70	0	70
Sp Gr / density	/ (lb/ft3)	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.14	1.0	1.0	1.0	1.0	0	1.0

Rain Event Station Refugio 2 NW, Tx US

Sump Pump #	Containment Area #	Stream ID#	Pad Length	Pad Width	New Area (sf)	Rainfall Volume (gallons) Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual (in)	Daily Annual Average (gal)	(ft)	(gpm)
inches of rainfall						2.15	2.39	3.01	2.27	3.17	3.52	3.84	3.15	4.39	4.31	2.82	2.07	36.89			
ft of rainfall						0.18	0.20	0.25	0.19	0.26	0.29	0.30	0.26	0.37	0.36	0.24	0.17	3.07			
SP-1	1	37	96	24	2304	3,088	3,432	4,323	3,260	4,553	5,055	5,228	4,524	6,305	6,190	4,050	2,973	52,980	145.2		0.10
SP-2	2	38	95	75	7125	9,549	10,615	13,368	10,082	14,079	15,633	16,166	13,990	19,497	19,142	12,524	9,193	163,838	448.9		0.31
SP-3	3	39	37.5	40	1500	2,010	2,235	2,814	2,122	2,964	3,291	3,403	2,945	4,105	4,030	2,637	1,935	34,492	94.5		0.07
SP-4	4	40	40.5	57	2308.5	3,094	3,439	4,331	3,266	4,562	5,065	5,238	4,533	6,317	6,202	4,058	2,979	53,083	145.4		0.10
TOTAL						17,740	19,721	24,837	18,731	26,157	29,045	30,035	25,992	36,224	35,563	23,269	17,080	304,393	834.0		
																				0.58	

REV.	DATE	DESCRIPTION	DWN	CKD
0	1/12/15	New Drawing Created for NOD #1	CB	CB

STATE OF TEXAS · CRAIG T. BOHOVSKY · 104855 · LICENSED PROFESSIONAL ENGINEER · 1-14-15

JOB NO.	BH WDW		
DATE:	1–12–15		
SCALE:	AS NOTED	APPROVED BY:	CB
		DRAWN BY:	CB
		DRAWING NO.	XII–2

BURKE HOLLOW PROJECT
Satellite IX Facility

PROCESS FLOW DIAGRAM
WDW PRE-INJECTION UNITS

Uranium Energy Corp

FIGURE IX-2

~~Figure XII-2~~

UEC NAME: C:\–UEC DATA\Projects+CAD\–Burke–Hollow\CAD\–WDW Docs\2–BHTI–wi–02rev0.dwg CB DATE: 12 JAN 2015 TIME: 10:08

X. RCRA PERMIT BY RULE REQUIREMENTS

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X. RCRA PERMIT BY RULE REQUIREMENTS

This section pertains to facilities where the Class I injection well is the only unit which requires a RCRA permit and the well is designated for hazardous waste injection. If this is the case, an evaluation for corrective action for releases from any solid waste unit is required. This section does not apply to UEC's permit renewal applications, since the WDW-447 and WDW-448 wells are not permitted to receive hazardous waste.

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XI. DISPOSAL OF WASTES CONTAINING RADIOACTIVE MATERIALS

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XI. DISPOSAL OF WASTES CONTAINING RADIOACTIVE MATERIALS

This section does not apply to the UEC application under title 30 Chapter 336 of the TAC (relating to Radioactive Substance Rules). Under agreement by the State of Texas with the Nuclear Regulatory Commission, the Atomic Energy Act of 1954 (as amended) defines the UEC waste as non-hazardous. The injectate falls under the waste code definition of 11 E2 Byproduct under TAC Title 30, Part 1, Chapter 336.

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XII. PRE-INJECTION UNITS

Pre-injection units to be operated by Uranium Energy Corp (UEC) will be used for storage and processing waste generated from in situ mining of uranium. The pre-injection units must be designed, constructed, operated and closed in compliance with the radioactive substance requirements under 30 TAC Chapter 336.

The pre-injection units are listed in Table XII.

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Table XII. Pre-injection Unit Summary

Pre-Injection Unit Name	Unit Number or Identifier	Permit Authority
Backwash Thickener Tank	T-4	TCEQ
Waste Water Storage Tanks	T-7 A/B/C/D	TCEQ
Recessed Plate 5 Micron Filter Press	F-4/5	TCEQ
5 Micron Sock Filters	F-6	TCEQ
1 Micron Cartridge Filters	F-7/8	TCEQ
WDW Transfer Pumps	P-7A/7B	TCEQ
WDW Transmission Pipeline	HDPE Pipe	TCEQ
Corrosion Inhibitor System	N/A	TCEQ
High Pressure Disposal Well Pumps	WDW-1/2	TCEQ
Pre-Injection Unit Concrete Pad w/Secondary Containment	N/A	TCEQ

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XIII. CONFIDENTIAL MATERIAL

None of the information included in the previous Sections I through XII of this application is deemed confidential and no material is included as "confidential" in this section.

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XIV. INDEX OF ATTACHMENTS

Attachments to this Application

Description of Attachment	Section	Attachment	Included	Not Included	Not Applicable
Core Data Form	I.L	A	X		
Public Interest Demonstration	I.M	B	X		
Site Legal Description	I.P.5.	C	X		
Facility Boundary and Topographic Map	I.P.6.	D	X		
Plain-Language Summary	I.Q.	E	X		
Public Involvement Plan	I.R	F	X		
Affected Land and Mineral Owners	II.	G	X		
Letter from Railroad Commission	III.	H	X		
Financial Assurance, Liability, and Financial Capability	IV.	I	X		
Radioactive Waste Statement	XI.	J	X		

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ATTACHMENT A

Core Data Form

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission *(If other is checked please describe in space provided.)*

☐ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application.)*

☒ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 603228461		RN 107228371

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	10/31/2024

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* *If new Customer, enter previous Customer below:*

Uranium Energy Corp

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
N/A	N/A	980399476	N/A

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☒ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other:
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address:								
	500 North Shoreline Blvd. Suite 800							
	City	Corpus Christi	State	TX	ZIP	78401	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
N/A	info@uraniumenergy.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*

(361) 888-8235		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Burke Hollow Project

23. Street Address of the Regulated Entity: *(No PO Boxes)*								
	City		**State**	TX	**ZIP**		**ZIP + 4**	
24. County	Bee							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:	The main entrance to Burke Hollow Project is located approximately 38 miles north of Corpus Christi or three miles south of Woodsboro on HWY 77. The actual plant and wellfields are located an additional 12 miles west of the HWY 77 entrance via caliche road.

26. Nearest City	**State**	**Nearest ZIP Code**
Skidmore	TX	78389

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	28.280833		**28. Longitude (W) In Decimal:**	-97.514167	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
1094	2122	N/A	N/A

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

In-situ Leach Uranium Recovery Project

34. Mailing Address:	**500 N. Shoreline Blvd.**							
	City	**Corpus Christi**	**State**	**TX**	**ZIP**	**78401**	**ZIP + 4**	

35. E-Mail Address:	**info@uraniumenergy.com**

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(361) 888-8235		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☒ Industrial Hazardous Waste
				WDW-447 and WDW-448 Class I Injection Wells
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Craig Wall	**41. Title:**	EH&S Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(361) 888-8235		(361) 888-5041	cwall@uraniumenergy.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Uranium Energy Corp	**Job Title:**	EH&S Manager
Name *(In Print)*:	Craig Wall	**Phone:**	(361) 888- **8235**
Signature:	R. Craig Wall	**Date:**	12/9/2024

ATTACHMENT B

Public Interest Demonstration

ATTACHMENT B

M. PUBLIC INTEREST DEMONSTRATION

UEC
Bee County, Texas

1. That the use or installation of the injection well is in the public interest. [TWC §27.051(a)(1)]

The approval of this application is in the public interest in that it is the safest method to dispose of the non-hazardous wastewater generated at the Uranium Energy Corporation (UEC) facility. The disposal wells will be used to dispose of a waste stream that contains constituents that are classified as non-hazardous by RCRA. By injecting this wastewater into the subsurface, the wastewater is sealed thousands of feet below the earth's surface, far below the human environment and drinking water, resulting in no emissions to the surface.

2. That no existing rights, including, but not limited to, mineral rights, will be impaired. [TWC §27.051(a)(2)]

No existing surface or mineral rights are impaired by underground injection at this location. Impact to adjacent land and mineral owners have been reviewed at each round of permitting activity and no negative impact has been identified. The waste plumes generated by underground injection at this location are contained in the defined injection intervals on a long term basis. The reservoirs receiving the injectate are saturated with saline water; therefore, they are not potential hydrocarbon reservoirs. For a list of identified surface landowners and mineral owners, see "Attachment D."

3. That, with proper safeguards, both ground and surface fresh water can be adequately protected from pollution. [TWC §27.051(a)(3)]

The injection wells will be constructed to 30 TAC Chapter 331 requirements and will adequately protect ground and surface fresh water from pollution.

4. That the applicant has made a satisfactory showing of financial responsibility if required by Section 27.073 of this code. [TWC §27.051(a)(4)]

Financial responsibility as required by Section 27.073 of this code is documented by the information provided in Attachment I of this submittal. This includes a bond for the closure and post-closure care of its existing wells, as well as a certificate of liability insurance to cover the well for bodily injury, and property damages to third parties due to sudden and non-sudden events. See Attachment I for details, as well as the UEC - endorsement (on UEC letterhead) stating that these requirements are met.

ATTACHMENT B

M. PUBLIC INTEREST DEMONSTRATION

UEC
Bee County, Texas

5. ***That the compliance history of the applicant and related entities is acceptable. [TWC §27.051(d)(1), 30 TAC § 331.121(b)(1)]***

The applicant, UEC, has not previously operated this facility and does not yet have a compliance history.

6. ***That there is no practical, economic, and feasible alternative to an injection well reasonably available. Provide justification for subsurface disposal. Include results of treatability studies of alternate, practical, economic and feasible methods of waste disposal. Explain in detail why each method is considered to be less satisfactory in terms of environmental protection than the proposed subsurface disposal method. Indicate whether this waste is presently being produced and, if so, what method is used for disposal. Describe the manufacturing process(es) and product(s) which produce the waste(s). [TWC §27.051(d)(2), 30 TAC § 331.121(b)(2)]***

There is no practical, economic, and feasible alternative to injection wells reasonably available for this wastewater. The use of deep disposal wells to handle the liquid waste generated by in situ uranium recovery facilities is considered the best available technology. Injection of liquid wastes generated during the mining process effectively isolates the radioactive and non-radioactive constituents from the surface environment and eliminates the need for further handling.

<u>Alternatives Considered to Underground Injection</u>
Other disposal methods that were considered and rejected include:

- *Solar evaporation ponds. These ponds have specific requirements in existing Texas Department of State Health Services (TDSHS) and Nuclear Regulatory Commission (NRC) regulations. The land that they cover is significantly disturbed and may require decontamination at decommissioning. Evaporation ponds must have leak detection systems and require a stringent inspection regimen including daily, weekly, monthly and annual inspections. Ultimately, the sludge from these ponds must be disposed at licensed 11e.(2) byproduct material disposal sites. Solar evaporation ponds provide the potential for leaks to the environment during their operational life due to potential pond liner leaks or embankment failure.*
- *Land application. This method is used at some existing in situ uranium recovery facilities and requires treatment of the waste stream and discharge under a National Pollutant Discharge Elimination System (NPDES) permit. Treated waste is generally applied to the land surface using conventional irrigation equipment. Treatment results in a solid waste that must be disposed at licensed 11e.(2) byproduct material disposal sites.*

Land application discharges result in salinization and buildup of radionuclides and heavy metals in the soil.

- *Thermal evaporation. Evaporation of liquid waste streams at the flow rates required by in situ uranium recovery facilities is impracticable. Evaporation would involve significant capital equipment costs and ongoing high energy usage. Additionally, evaporation would create concentrated 11e.(2) byproduct waste requiring disposal.*
- *Surface discharge under an NPDES permit would require tertiary treatment and generate additional 11e.(2) byproduct material for disposal.*

Conclusion
Of the alternate treating schemes investigated, all but deep well disposal yield a concentrated slurry of low level radioactive material which must be indefinitely stored. Ultimate disposal can either be at a licensed 11e.(2) byproduct material disposal site (following a volume reduction step and chemical or physical containment or encapsulation) or in a bounded saline aquifer (with minimal volume reduction). Subsurface injection provides protection to freshwater aquifers through appropriate well construction and monitoring. Considering the safety and reliability associated with the different ultimate disposal methods available, the preferred method of disposal is by deep well injection into saline aquifers.

7. (for hazardous waste injection wells only) That the applicant has provided for the proper operation of the proposed hazardous waste injection well. [TWC §27.051(a)(5)]

N/A – The injection wells will inject non-hazardous waste.

8. (for hazardous waste injection wells only) That the applicant for a hazardous waste injection well not located in an area of industrial land use has made a reasonable effort to ensure that the burden, if any, imposed by the proposed hazardous waste injection well on local law enforcement, emergency medical or fire-fighting personnel, or public roadways, will be reasonably minimized or mitigated. [TWC §27.051(a)(6)]

N/A – The injection wells will inject non-hazardous waste.

ATTACHMENT B

M. PUBLIC INTEREST DEMONSTRATION

UEC
Bee County, Texas

9. (for hazardous waste injection wells only) That the applicant owns or has made a good faith claim to, or has the consent of the owner to utilize, or has an option to acquire, or has the authority to acquire through eminent domain, the property or portions of the property where the hazardous waste injection well will be constructed. [TWC §27.051(a)(7)]

N/A – The injection wells will inject non-hazardous waste.

10. (for hazardous waste injection wells only) That the applicant will maintain sufficient public liability insurance for bodily injury and property damage to third parties that is caused by sudden and non-sudden accidents or will otherwise demonstrate financial responsibility in a manner adopted by the Commission in lieu of public liability insurance. [TWC §27.051(d)(3), 30 TAC § 331.121(b)(3)]

N/A – The injection wells will inject non-hazardous waste.

11. (for hazardous waste injection wells only) For on-site generated waste, provide certification by the owner/operator that (1) the generator of the hazardous waste has a program to reduce the volume or quantity and toxicity of the waste to the degree determined by the generator to be economically practicable, and (2) injection of the waste is that practicable method of disposal currently available to the generator which minimizes the present and future threat to human health and the environment. [30 TAC §331.121(b)(4) and 40 CFR §146.70(d)]

N/A – The injection wells will inject non-hazardous waste.

ATTACHMENT C

Site Legal Description

INDEXED

Mail recorded original and property tax notices to Grantee at:

Burke Hollow Corporation
911 Briar Ridge
Houston, Texas 77057
Attn: President

68250

DEED

STATE OF TEXAS §
§
COUNTIES OF BEE AND REFUGIO §

Recitals

Thomas D. Barrow, Janice H. Barrow, Theodore H. Barrow, Kenneth T. Barrow, Barbara Barrow McCelvey and Elizabeth B. Brueggeman (hereinafter referred to individually as a "Grantor" and collectively as the "Grantors") each own an undivided interest in and to that certain real property, and appurtenances thereto, located in Bee and Refugio Counties, Texas and more particularly described on Exhibit A attached hereto and made a part hereof (such property and interests appurtenant thereto being hereinafter referred to as the "Property").

Each Grantor's respective undivided interest in and to the Property (as to each Grantor, its "Undivided Property Interest") is as set forth below:

Grantor	Undivided Property Interest
Thomas D. Barrow	three-eights (3/8)
Janice H. Barrow	three-eights (3/8)
Theodore H. Barrow	one-sixteenth (1/16)
Kenneth T. Barrow	one-sixteenth (1/16)
Barbara Barrow McCelvey	one-sixteenth (1/16)
Elizabeth B. Brueggeman	one-sixteenth (1/16)

Each Grantor desires to convey its Undivided Property Interest to Burke Hollow Corporation, a Texas corporation

This instrument was prepared by:
Richard K. McGee
3300 First City Tower
1001 Fannin
Houston, Texas 77002-6760

NOTICE TO RECORDING AGENT:

PLEASE FILE THIS INSTRUMENT TOGETHER WITH OTHER INSTRUMENTS FURNISHED TO YOU HEREWITH IN THE FOLLOWING SEQUENCE:

INSTRUMENT 7 OF 7 INSTRUMENTS

VOL 453 PAGE 1

("Grantee"), whose principal place of business is located at 911 Briar Ridge, Houston, Texas 77057.

NOW, THEREFORE, each Grantor, for good, valuable and sufficient consideration in hand paid by, and as a contribution to the capital of, Grantee, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and confessed by each Grantor, has and by these presents does grant, convey, sell, bargain, assign, transfer, deliver and set over unto Grantee such Grantor's Undivided Property Interest.

Each Undivided Property Interest is conveyed and accepted subject to the following to the extent the same are valid, enforceable and affect the Property: all liens, covenants, restrictions, reservations and rights, rights-of-way, easements, outstanding oil, gas, and mineral interests, royalty interests, oil, gas and mineral leases and other encumbrances, if any, of public record in the above state and county; all zoning ordinances or statutes and building, use and occupancy restrictions, if any, of public record; and all matters that would be revealed by a current inspection or survey of the Property.

TO HAVE AND TO HOLD each Undivided Property Interest unto Grantee, its successors and assigns, forever.

Each conveyance is made without warranty of title, express, implied or statutory, and without recourse even as to the return of the purchase price, but with full substitution and subrogation of the Grantee, and all persons or entities claiming by, through and under the Grantee, to the extent assignable, in and to all covenants and warranties by such Grantor's predecessors in title and with full subrogation of all rights accruing under the statutes of limitation or prescription under the laws of the state in which the Property is located and all rights of action of warranty against all former owners of such Grantor's Undivided Property Interest. Any covenants implied by statute or law by use of the words "grant, convey, sell, bargain, assign, transfer, deliver or set over" or any of them or any other words used in this deed are hereby expressly disclaimed, waived and negated.

WITNESS THE EXECUTION HEREOF, effective as of the 15th day of September 1988.

Thomas D. Barrow

Janice H. Barrow

Theodore H. Barrow

Kenneth T. Barrow

Barbara Barrow McCelvey

Elizabeth B. Brueggeman

STATE OF TEXAS

COUNTY OF HARRIS

This instrument was acknowledged before me on 9-9-88 by Thomas D. Barrow.

Notary Public

My Commission Expires: 2-4-92

AUDREY N. HENRY
Notary Public, Harris County, Texas
My Commission Expires: 2-4-92

STATE OF TEXAS

COUNTY OF HARRIS

This instrument was acknowledged before me on 9-9-88 by Janice H. Barrow.

Audrey N. Henry
Notary Public

My Commission Expires: 2-4-92

AUDREY N. HENRY
Notary Public, Harris County, Texas
My Commission Expires: 2-4-92

STATE OF VIRGINIA

County of Prince William
~~CITY OF FRIEDERICKSBURG~~

This instrument was acknowledged before me on October 13, 1988 by Theodore H. Barrow.

Shirley J. Bates
Notary Public

My Commission Expires: 8/31/89

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 9-20-88 by Kenneth T. Barrow.

Carolyn D. Larson
Notary Public

My Commission Expires: 7-30-92

CAROLYN D. LARSON
Notary Public, State of Texas
My Commission Expires 7/30/92

STATE OF TEXAS

COUNTY OF HARRIS

This instrument was acknowledged before me on 9-8-88 by Barbara Barrow McCelvey.

Audrey N. Henry
Notary Public

My Commission Expires: 2-4-92

AUDREY N. HENRY
Notary Public, Harris County, Texas
My Commission Expires: 2-4-92

STATE OF TEXAS

COUNTY OF HARRIS

This instrument was acknowledged before me on 9-9-88 by Elizabeth B. Brueggeman.

Audrey N. Henry
Notary Public

My Commission Expires: 2-4-92

AUDREY N. HENRY
Notary Public, Harris County, Texas
My Commission Expires: 2-4-92

RKM:
BARROW/a:deed.doc

EXHIBIT A

THE STATE OF TEXAS }
COUNTIES OF BEE AND REFUGIO }

Field notes of a survey of 29,332.04 acres of land made for Mrs. Laura T. Barrow, Independent Executrix of the Estate of Mrs. Laura D. Thomson, 3314 Chevy Chase Drive, Houston 19, Texas.

Being a resurvey of the following tracts of land in Bee and Refugio Counties, Texas:

1. A tract of 25,597.8 acres in Bee and Refugio Counties, being the First Tract of Share Three allotted Laura Driscoll in suit styled Mrs. Birdie D. Rooke et al vs. Robert Driscoll et al, Cause No. 456 in the District Court of Refugio County, Texas, by Decree dated September 17, 1894, as recorded in Volume Q, page 398 et seq., Deed Records of Refugio County, Texas.

2. A tract of 562 1/2 acres out of the Timotny Hart one league grant in Bee County, being the identical 584 1/2 acre tract conveyed by J. Billingsley to J. O. & R. Driscoll by deed dated September 30, 1884, also being the Second Tract of Share Three in Cause No. 456, identified above.

3. A tract of 2809 acres in Bee County conveyed by Mrs. Birdie D. Rooke et vir to Mrs. Laura Thomson by deed dated March 7, 1898, as recorded in Volume B-2, page 113, Deed Records of said county.

4. A tract of 100 acres in Bee County conveyed by Theo Priour et ux to Laura D. Thomson by deed dated July 23, 1909, as recorded in Volume U-2, page 507, Deed Records of said county.

5. A tract of 160 acres in Bee County conveyed by H. W. Sparks to Mrs. Laura D. Thomson by deed dated June 27, 1911, as recorded in Volume 49, page 615, Deed Records of said county.

Said survey is comprised of 23,321.52 acres in Bee

Recorder's Memo: Legibility Of Writing, Typing or Printing UNSATISFACTORY in this Document when received.

County and 6,010.52 acres in Refugio County, being out of the following original surveys:

ORIGINAL GRANTEE	BEE COUNTY AB.NO.	BEE COUNTY ACRES	REFUGIO COUNTY AB.NO.	REFUGIO COUNTY ACRES	TOTAL ACRES
Rosa Brown	7	786.70	7	1657.69	2444.39
Patrick Downey	20	3835.27	18	939.62	4774.89
Daniel O. Driscoll		11.23	134	751.04	762.27
S. I. & M. Co.	1250	418.28	408	344.98	763.26
Cuad. Irrig. Co.			130	107.97	107.97
Cuad. Irrig. Co.			128	195.54	195.54
D. J. Mitchell			217	74.53	74.53
C.E.P.I. & M. Co.			118	39.71	39.71
C.E.P.I. & M. Co.			120	11.72	11.72
Maximo Gomez	25	1303.19	30	541.60	1844.79
J. M. Castillo	14	101.24	10	1346.12	1447.36
M. de los Santos	64	5218.03			5218.03
John Roache	60	821.38			821.38
Garrett Roache	59	2710.08			2710.08
William Burke	9	2184.16			2184.16
M. M. & J. Tool	67	121.27			121.27
James Burke	8	1309.89			1309.89
William Quin	54	1138.90			1138.90
William Bartels	4	653.28			653.28
James H. Mullen	13	990.20			990.20
John Casidy	13	1059.10			1059.10
Dieterich, Baumaker & Longenheim	18	60.92			60.92
Timothy Hart	28	598.40			598.40
		23,321.52		6,010.52	29,332.04

Said survey is more particularly described by metes and bounds as follows, to-wit:

Beginning at a concrete monument in fence corner at a corner of land owned by James Lawrence Wood, the N.W. corner of a tract of 8648 acres conveyed by R. H. Welder to James F. Welder by deed dated December 30, 1935, as recorded in Volume 32, page 196, Deed Records of Refugio County, Texas and the N.E. corner of the

File: 4660

First Tract of Share Three allotted Mrs. Laura Driscoll Thomson in said suit styled Rooke vs. Driscoll, Cause No. 456, for the N.E. corner of this survey;

Thence, S. 9° 08' 55" W., with fence on the west line of said James F. Welder land, 12,572.1 feet to a concrete monument in said line at corner of fence marking a corner of the First Tract of Share Two, containing 17,957.83 acres allotted Catherine Driscoll (now Mrs. K. D. Roche) for a corner of this survey, from whence an 18 inch Live Oak tree marked X Bears, N. 38° 30' W., 115 feet;

Thence, S. 70° 08' 14" W., with fence on a line of said 17,957.83 acre Roche tract, 7868.3 feet to a concrete monument at its N.W. corner for a corner of this survey, from whence a 26 inch Mesquite tree marked X Bears, N. 40° 30' W., 65 feet;

Thence, S. 8° 52' 17" W., with fence on the west line of said 17,957.83 acre Roche tract, at 10,247 feet pass a concrete monument in the northeast line of the Patrick Downey grant, at 11,595.4 feet pass a concrete monument in the south line of said Downey grant and the north line of the Rosa Brown grant, at 18,195.4 feet in all to a concrete monument at the N.E. corner of a tract of 632.4 acres allotted Adeline Welder by decree in suit styled Mrs. Dolores Welder et al vs. Adeline Welder et al as recorded in Volume P, page 494, Deed Records of Refugio County, Texas, for the S.E. corner of this survey;

Thence, N. 81° 14' 28" W., with the north line of said Adeline Welder land, at 12,430.7 feet pass a concrete monument set in the Bee-Refugio County line, at 15,380 feet found a 36 inch Live Oak tree marked X which Bears, N. 8° 45' E., 7 feet, at 15,605 feet set a concrete monument, at 15,797 feet to a stake in the center of Aransas Creek at the N.W. corner of said Adeline Welder land and the S.W. corner of Tract One of Share Three allotted Laura Driscoll for a corner of this survey;

Thence, up the center of Aransas Creek with its meanders as follows: N. 12° 14' E., 201 feet; N. 19° 05' E., 200 feet;

N. 21° 05' E., 202 feet; N. 27° 29' E., 199 feet; N. 33° 27' E., 201 feet; N. 30° 52' E., 399.6 feet; N. 25° 19' E., 201 feet; N. 21° 15' E., 144 feet; N. 15° 11' E., 202 feet; N. 19° 45' E., 201 feet; N. 12° 55' E., 200 feet; North, 162 feet; N. 9° W., 196 feet; N. 20° 47' W., 200 feet; N. 30° 15' W., 201 feet; N. 31° 59' W., 121 feet; N. 31° 21' W., 171 feet; N. 37° 12' W., 383 feet; N. 38° 59' W., 200 feet; N. 35° 33' W., 199 feet; N. 33° 57' W., 199 feet; N. 28° 31' W., 200 feet; N. 27° 20' W., 200 feet; N. 23° 56' W., 201 feet; N. 26° 40' W., 103 feet; N. 8° 25' W., 199 feet; N. 7° 16' W., 201 feet; N. 8° 31' W., 204 feet; N. 12° E., 204 feet; N. 15° 14' E., 201 feet; N. 15° 50' E., 200 feet; N. 17° 31' E., 200 feet; N. 21° 31' E., 202 feet; N. 13° 41' E., 400 feet; N. 7° 31' E., 202 feet; N. 1° 09' E., 201 feet; N. 1° 28' W., 200 feet; N. 2° 19' W., 200 feet; N. 8° 22' E., 76 feet; N. 14° 43' E., 196 feet; N. 24° 36' E., 200 feet; N. 18° 34' E., 200 feet; N. 24° 11' E., 212.3 feet to stake in said centerline at the N.E. corner of a tract of 1667.9 acres owned by Joe Wilson and the S.E. corner of the William Quin one-quarter league grant for a corner of this survey;

Thence, S. 89° 49' 55" W., with the north line of said Joe Wilson land, at 80 feet set a concrete monument, from whence an 18 inch Hackberry marked W Bears, N. 59° W., 67 feet, at 1426 feet fence begins, and continue with fence, at 5816.4 feet in all to a concrete monument in fence corner at the N.W. corner of said Wilson land and the N.E. corner of a tract of 1300.7 acres owned by Mrs. Jamie Hynes for a corner of this survey;

Thence, S. 89° 49' 32" W., with fence on the north line of said Hynes land, 4136.8 feet to a concrete monument in fence corner at her N.W. corner and the N.E. corner of the Second Tract of Share Three allotted Mrs. Laura Driscoll Thomson in said suit styled Birdie D. Rooke et al vs. Robert Driscoll et al, Cause No. 456 in the District Court of Refugio County, Texas, for a corner of this survey;

Thence, S. 0° 10' 47" E., with the west line of said Jamie Hynes land and the east line of said Second Tract of Share Three, at 13,714.1 feet pass a concrete monument in fence corner at the S.W. corner of said Hynes land and a corner of a tract of 360.8 acres owned by John Murphy, and continuing with the east line of said Murphy tract, at 14,387.1 feet set a concrete monument at end of fence, at 14,468.1 feet in all to the north bank of Silver Creek at the S.E. corner of said Second Tract of Share Three for a corner of this survey;

Thence, up the north bank of Silver Creek with its meanders as follows: N. 84° 37' W., 363 feet; S. 52° 57' W., 363 feet; S. 70° 13' W., 405 feet; S. 84° 16' W., 241.3 feet; N. 63° 29' W., 250 feet; N. 53° 24' W., 274 feet; N. 77° 11' W., 108.9 feet to a stake on said north bank in fence on the east line of a tract of 380 acres owned by John Murphy and V. E. Kessler at the S.W. corner of said Tract Two of Share Three allotted Mrs. Laura Driscoll Thomson for the most southerly S.W. corner of this survey;

Thence, N. 1° 14' W., with fence on the east line of said Murphy and Kessler 380 acre tract, at 150 feet set a concrete monument, at 876 feet in all to a fence corner post marking the N.E. corner of said Murphy and Kessler 380 acre tract and the S.E. corner of a tract of 384.6 acres owned by Loyce Du Menil for a corner of this survey;

Thence, N. 0° 21' E., with fence on the east line of said Du Menil tract, 3207.8 feet to an iron pipe in fence corner marking its N.E. corner and the S.E. corner of a tract of 580 acres owned by Ella O'Reilly for a corner of this survey;

Thence, N. 0° 07' W., with fence on the east line of said Ella O'Reilly tract, 3162 feet to an iron pipe in fence corner marking its N.E. corner and the S.E. corner of a tract of 606 acres owned by W. B. Tuttle for a corner of this survey;

Thence, N. 0° 41' E., with fence on the east line of said W. B. Tuttle tract, 2417.8 feet to an iron pipe in fence

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File: [illegible]

corner marking its N.E. corner and the S.E. corner of a tract of 606 acres owned by R. T. Hart et al for a corner of this survey;

Thence, N. 0° 44' E., with fence on the east line of said Hart tract, 2415 feet to an iron pipe in fence corner marking its N.E. corner and the S.E. corner of a tract of 606 acres owned by Phil Ludwig for a corner of this survey;

Thence, N. 1° 11' E., with fence on the east line of said Ludwig tract, 2429 feet to a concrete monument in fence corner at its N.E. corner and the N.W. corner of said Tract Two of Share Three allotted Mrs. Laura Driscoll Thomson for a corner of this survey;

Thence, S. 89° 36' W., with fence on the north line of said Ludwig tract, 1289 feet to a concrete monument in fence corner at the S.E. corner of the Second Tract of Share Two, containing 7553.9 acres allotted Mrs. K. D. Roche and the S.W. corner of the First Tract of Share Three allotted Mrs. Laura D. Thomson in suit styled Birdie Rooke et al vs. Robert Driscoll et al, Cause No. 456, District Court of Refugio County, Texas, for the S.W. corner of said William Quin grant, the S.E. corner of the William Bartels grant of one-quarter league and the most westerly S.W. corner of this survey;

Thence, N. 0° 05' 05" E., with fence on the east line of said 7553.9 acre tract and the east line of the William Bartels grant, at 3666.1 feet pass a concrete monument at the N.W. corner of said William Quin grant and the S.W. corner of the James Burke one-quarter league grant, at 7569.1 feet in all to a concrete monument in fence corner at N.W. corner of said James Burke grant and the S.W. corner of the James H. Mullen one-quarter league grant for a corner of said Second Tract of Share Two allotted Mrs. K. D. Roche, a corner of said First Tract of Share Three allotted Mrs. Laura D. Thomson and a corner of this survey;

Thence, N. 89° 55' 06" W., with fence on a line of said Second Tract of Share Two allotted Mrs. K. D. Roche, 1822.5 feet to a concrete monument at a corner of said Tract Two, Share Two

for the S.W. corner of Tract Eight of Share One containing 2809 acres conveyed by Birdie L. Roche et vir to Mrs. Laura D. Thomson by deed dated March 7, 1898, as recorded in Volume B-2, page 113, Deed Records of Bee County, Texas, for a corner of this survey;

Thence, N. 0° 01' 40" E., with fence on the east line of said Roche land, at 16,820.2 feet pass a fence corner post at north end of fence, at 17,181 feet pass a concrete monument, from whence a 10 inch Hackberry tree marked A Bears, N. 63° W., 39 feet, at 17,486 feet in all to a stake in center of Aransas Creek for the N.E. corner of said Roche land, the N.W. corner of said 2809 acre tract and a corner of this survey;

Thence, down the center of Aransas Creek with its meanders as follows: N. 71° 45' E., 218.5 feet; S. 73° 17' E., 212 feet; S. 72° 16' E., 164 feet; S. 64° 04' E., 198 feet; S. 66° 36' E., 56 feet; S. 50° 12' E., 159.2 feet to a stake at the most northerly S.W. corner of said First Tract of Share Three allotted Mrs. Laura D. Thomson and the S.E. corner of land owned by Claude E. Heard for a corner of this survey;

Thence, N. 14° 41' 52" E., with the east line of the Claude E. Heard land, at 201 feet pass a large Live Oak tree marked X on line, at 559.2 feet pass a concrete monument, at 559.2 feet fence begins, at 10,482.1 feet in all to a concrete monument in fence corner at the S.W. corner of land owned by Mrs. Georgie Heard for the N.W. corner of said First Tract of Share Three allotted Mrs. Laura D. Thomson and the N.W. corner of this survey;

Thence, S. 72° 13' E., with fence on the south line of said Georgie Heard land, at 503.1 feet pass a concrete monument on the east line of the Martin, Michael and John Tool grant of three-quarters of a league and the west line of the William Burke grant of one league, at 7112.8 feet pass a concrete monument on the east line of said William Burke grant and the west line of the Garrett Roache grant of one league, at 8003.9 feet in all to a concrete monument at angle in fence for a corner of said Heard land and a corner of this survey;

Thence, S. 72° 24' 28" E., with the south line of said Georgie Heard land, 1619.2 feet to a concrete monument at angle in fence for a corner of same and a corner of this survey;

Thence, S. 72° 08' 41" E., with fence on the south line of said Georgie Heard land, 1056.7 feet to a concrete monument in fence corner at her S.E. corner and the S.W. corner of a tract of 5000 acres owned by Mrs. Josephine Chesnutt for a corner of this survey;

Thence, S. 72° 20' 43" E., with fence, at 3041.9 feet pass a concrete monument on the east line of said Garrett Roache grant and the west line of the John Roache grant of one-quarter league, at 4694.4 feet pass a concrete monument on the east line of said John Roache grant and the west line of the Miguel de los Santos grant of one league, at 1,021 feet pass a concrete monument in the east line of said Miguel de los Santos grant and the west line of the Maximo Gomez grant of one league, at 24,363.4 feet pass a concrete monument on the east line of said Gomez grant and the west line of the Jose M. Castillo grant of one league, at 26,016.2 feet in all to a concrete monument in fence corner at the S.E. corner of the Elizabeth McCurdy land and the S.W. corner of land owned by James Lawrence Wood for a corner of this survey;

Thence, S. 72° 08' 55" E., with fence on the south line of the James Lawrence Wood land, at 286 feet pass a concrete monument in the Bee-Refugio County line, at 3691.6 feet pass a concrete monument in the east line of said Castillo grant, at 3943 feet in all to the place of beginning.

THE STATE OF TEXAS
COUNTIES OF BEE AND REFUGIO

I, PHILLIP G. YOUNG, Licensed State Land Surveyor, do hereby certify that the foregoing is a true and correct description of an actual survey made by me on the ground.

Surveyed December 4, 1957.

Phillip G. Young
PHILLIP G. YOUNG
Licensed State Land Surveyor

SEAL AFFIXED

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SAVE AND EXCEPT, and the Land herein described does not include the following described five (5) tracts of land located in Bee County Texas:

TRACT 1:

A tract of land in Bee County, Texas, out of Block Four (4) of The Laura Driscoll Thomson Estate Ranch Subdivision, Bee and Refugio Counties, Texas, as set out in that certain Plat showing Revised Subdivision of The Laura Driscoll Thomson Estate Ranch recorded in Volume 2, Page 49, Map Records of Bee County, Texas, said tract being more particularly described by metes and bounds as follows:

BEGINNING at the Northwest corner of said Block 4,

THENCE S 72° 13' East 295.18 feet along the northern boundary of Block 4 to a point;

THENCE S 14° 41' 52" West 295 feet to a point;

THENCE N 72° 13' West 295.18 feet to a point on the West boundary of Block 4; and

THENCE N 14° 41' 52" East 295 feet along the West line of Block 4 to the POINT OF BEGINNING.

TRACT 2:

A tract of land in Bee County, Texas, out of Block Four (4) of The Laura Driscoll Thomson Estate Ranch Subdivision, Bee and Refugio Counties, Texas, as set out in that certain Plat showing Revised Subdivision of The Laura Driscoll Thomson Estate Ranch recorded in Volume 2, Page 49, Map Records of Bee County, Texas, said tract being more particularly described by metes and bounds as follows:

BEGINNING at the Northeast corner of said Block 4;

THENCE S 14° 42' West 295.18 feet along the East line of said Block 4 to a point;

THENCE N 72° 20' 43" West 295 feet to a point;

THENCE N 14° 42' East 295.18 feet to a point on the North boundary of Block 4; and

THENCE S 72° 20' 43" East 295 feet along the North boundary line of Block 4 to the POINT OF BEGINNING.

TRACT 3:

A tract of land in Bee County, Texas, out of Block Five (5) of The Laura Driscoll Thomson Estate Ranch Subdivision, Bee and Refugio Counties, Texas, as set out in that certain Plat showing Revised Subdivision of The Laura Driscoll Thomson Estate Ranch recorded in Volume 2, Page 49, Map Records of Bee County, Texas, said tract being more particularly described by metes and bounds as follows:

BEGINNING at the most Westerly Southwest corner of said Block 5, being the Southwest corner of the William Quinn Grant in said Block 5;

THENCE N 0° 05' 05" East 295.18 feet along the West line of Block 5 to a point;

THENCE N 89° 36' East 295 feet to a point;

THENCE S 0° 05' 05" West 295.18 feet to a point on the South boundary line of the William Quinn Grant in said Block 5; and

THENCE S 89° 36' West 295.18 feet along the South boundary line of the William Quinn Grant of Block 5 to the POINT OF BEGINNING.

TRACT 4:

A tract of land in Bee County, Texas, out of Block Three (3) of The Laura Driscoll Thomson Estate Ranch Subdivision, Bee and Refugio Counties, Texas, as set out in that certain showing Revised Subdivision Plat of The Laura Driscoll Thomson Estate Ranch recorded in Volume 2, Page 49, Map Records of Bee County, Texas, said tract being more particularly described by metes and bounds as follows:

BEGINNING at the most Northerly Eastern corner of said Block 3, being the intersection of the Bee County Line with the North line of the Patrick Downey Grant in said Block 3;

THENCE N 33° 35' 42" West 295.18 feet along the North boundary line of Block 3 to a point;

THENCE S 33° 01' 44" West 295 feet to a point;

THENCE S 33° 35' 42" East 295.18 feet to a point on the Bee County Line; and

THENCE N 33° 01' 44" East 295 feet along common line bounding Bee and Refugio Counties to the POINT OF BEGINNING.

TRACT 5:

A tract of land in Bee County, Texas, out of Block Five (5) of The Laura Driscoll Thomson Estate Ranch Subdivision, Bee and Refugio Counties, Texas, as set out in that certain Plat showing Revised Subdivision of The Laura Driscoll Thomson Estate Ranch recorded in Volume 2, Page 49, Map Records of Bee County, Texas, said tract being more particularly described by metes and bounds as follows:

BEGINNING at the most Southerly Southeast corner of Block 5, being the Southeast corner of the Timothy Hart Grant in said Block 5;

THENCE N 0° 10' 47" West 295.18 feet along the East line of said Timothy Hart Grant in said Block 5 to a point;

THENCE N 84° 37' West 295 feet to a point;

THENCE S 0° 10' 47" East 295 feet to a point in the meander of Silver Creek;
THENCE S 84° 37' East 295.18 feet along the meander of the North bank of Silver Creek to the POINT OF BEGINNING.

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Filed for record November 28, 1988, at 11:00 o'clock A. M.
and recorded November 29, 1988, Deed
Records of this office.

JULIA V. TORRES, Clerk
County Court, Bee County, Texas

By Cynthia S. Martinez, Deputy

ATTACHMENT D

Facility Boundary and Topographic Map

REVISED 7/17/2025

WDW-447 well pad
PIU present:

Backwash Thickener, Tank T-4
Waste Water Storage Tanks, T-7 A/B/C/D
Recessed Plate 5 Micron Filter Press, F-4/5
5 Micron Sock Filters, F-6
WDW Transfer Pumps, P-7A/7B
Pre-Injection Unit Concrete Pad w/Secondary Containment

WDW-448 well pad
PIU present:

WDW Transmission Pipeline HDPE Pipe
Corrosion Inhibitor System
High Pressure Disposal Well Pump
Pre-Injection Unit Concrete Pad w/Secondary Containment
1 Micron Cartridge Filter

WDW-447 (proposed)
WDW-448 (proposed)

SEE REFUGIO SHEET

Burke Hollow Corporation Property Area, as listed in Attachment C 29,332.04 acres

one-mile radius of Property Boundary

Uranium Energy Corporation equivalent to Area Permit 11,359 acres

- TWDB Well Locations
- SDRDB Well Locations
- BRACS Well Locations
- × SDRDB Plugged Well Locations
- Ion Exchange Plant (Pre-Injection Units)
- Proposed Injection Well Location
- 150941 Water Well Location and ID Number
- Surface intake structure
- Surface discharge structure

UTM GRID AND 1978 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

- Domestic or Livestock Well
- Industrial Well
- Rig Supply Well
- Oil Test
- Test Well
- Other or Unknown Well
- Plugged or Damaged Well
- Location
- Location Abandoned
- Rig Up
- Drilling
- Dry & Abandoned
- Oil Well
- Oil Well Abandoned
- Gas Well
- Gas Well Abandoned
- Well Abandoned-Show of Oil & Gas
- Well Abandoned-Show of Oil
- Well Abandoned in Salt
- Well Abandoned in Cap Rock
- Core Test Well
- Wet Gas Or Condensate Well
- Wet Gas or Condensate Well Abnd
- Producing Oil & Gas

SCALE 1:24000
1 ½ 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0.5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route U. S. Route State Route

Note: Well locations and data displayed were collected using the Texas Water Development Board (TWDB) Groundwater Database (GWDB), the Submitted Drillers Report (SDR) Databases populated from the online Texas Well Report Submission and Retrieval System (TWRSRS) and the TWDB's Brackish Resources Aquifer Characterization System (BRACS) Database.

Base Map prepared from: Burkes Ridge, Refugio SW, Papalote and Cranell, TX, 2016 USGS 7.5-Minute Topographic Maps

STATE OF TEXAS
STEPHANIE K. WILLIAMS
GEOLOGY
NO. 11198
LICENSED
PROFESSIONAL GEOSCIENTIST

Stephanie K. Williams 7/16/2025
Terra Dynamics Incorporated
F-3501

ATTACHMENT D-1

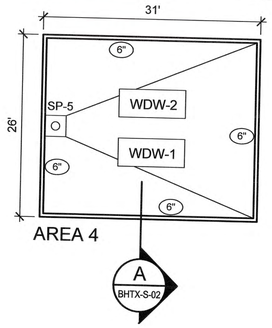
TERRA DYNAMICS INC

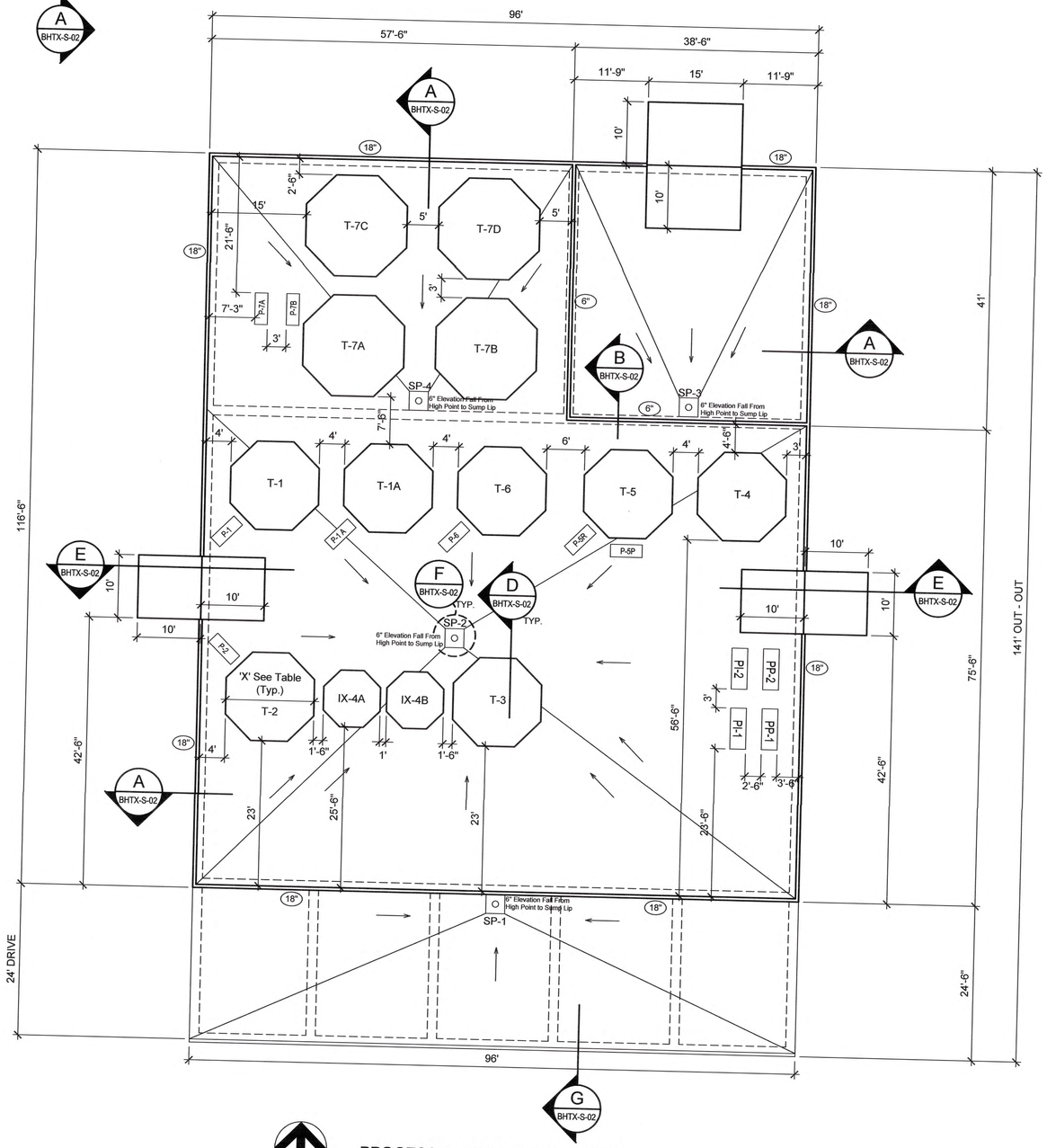
ONE-MILE RADIUS FROM PROPERTY BOUNDARY TOPOGRAPHIC MAP

PREPARED FOR:
URANIUM ENERGY CORPORATION
BEE COUNTY, TEXAS

DRAWN BY: HKD	SCALES: As Indicated	DATE: REVISED 7/7/2025	
DESIGNED BY: HKD			
CHECKED BY: SKW		JOB NO.: 24-145	© 2025

REVISED 7/17/2025





PROCESS FACILITY LAYOUT PLAN

N

GRAPHIC SCALE (FT.)

LEGEND:

- (##) CONTAINMENT WALL HEIGHT IN INCHES
- (T-##) TANK IDENTIFICATION NUMBER
- [P-##] PUMP EQUIPMENT & FOUNDATION IDENTIFICATION NUMBER
- [O SP-##] SUMP PUMP IDENTIFICATION NUMBER
- 6" THICK CONCRETE CONTAINMENT WALL
- FLOW ARROW
- CONCRETE FOOTINGS

NOTE:
CONCRETE FOUNDATION BEAM WIDTHS ARE SHOWN EXAGERATED FOR CLARITY AND ARE NOT DRAWN TO SCALE

(C BHTX-S-02) NOTE:
CONSTRUCTION JOINT LOCATIONS MAY VARY. DO NOT USE UNLESS APPROVED PRIOR.

TANK DIMENSIONS AND SIZES (NOMINAL)		
TANK ID	TANK DESCRIPTION	'X' - PAD SIZE (FT)
T-1	$NaHCO_3$ Tank	14
T-1A	$NaHCO_3$ Mix Tank	14
T-2	Resin Transfer Tank	14
T-3	Backwash Thickener Tank	14
T-4	Backwash Thickener Tank	14
T-5	RO Permeate Tank	14
T-6	Plant Water Tank	14
T-7A	WDW Storage Tank	16
T-7B	WDW Storage Tank	16
T-7C	WDW Storage Tank	16
T-7D	WDW Storage Tank	16
IX-4A	IX Vessel (Restoration)	9
IX-4B	IX Vessel (Restoration)	9

PUMP PAD DIMENSIONS	
PUMP ID	PAD SIZE (FT)
PP-1	2.5 x 6.5
PP-2	2.5 x 6.5
PI-1	2.5 x 6.5
PI-2	2.5 x 6.5
P-1	2 x 5
P-1A	2 x 5
P-2	2 x 5
P-3	NO PAD
P-4	NO PAD
P-5P	2 x 5
P-5R	2 x 5
P-6	2 x 5
P-7A	2 x 5
P-7B	2 x 5

Attachment D-2

FIGURE S-01

REV.	DATE	DESCRIPTION	DWN	CKD
0	6/1/14	Submitted with Application	CB	CB

STATE OF TEXAS
CRAIG T. BORDOVSKY
104905
LICENSED
PROFESSIONAL ENGINEER
6-3-14

JOB NO. BH RML
DATE: 5/9/14
SCALE: AS NOTED
APPROVED BY: CB
DRAWN BY: CB
DRAWING NO. BHTX-S-01

BURKE HOLLOW PROJECT
Satellite IX Facility

IX FACILITY FOUNDATION PLAN

UEC Uranium Energy Corp

ATTACHMENT E

Plain Language Summary

ATTACHMENT E
PLAIN LANGUAGE SUMMARY

Included on the following pages is a Plain Language Summary of the Permit Renewal Application for WDW-447 (proposed) and WDW-448 (proposed).

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Attachment E

Plain Language Summary

Uranium Energy Corp
Permit Renewal Application to Dispose of Waste in a Class I Injection Well
WDW-447 and WDW-448

The applicant is Uranium Energy Corp (referred to as UEC). This application and supporting technical document is for a permit to dispose of waste in a Class I injection well. UEC is requesting renewal for two permits for undrilled wells, which are currently permitted as waste disposal wells WDW-447 (proposed) and WDW-448 (proposed). The waste injected in the wells will be wastewater generated primarily during in situ uranium mining and well field restoration operations, which is located three miles south of Woodsboro Highway 77 in Bee County, Texas.

UEC is also requesting an amendment to the permit for WDW-447. WDW-447 and WDW-448 are proposed wells and have not been drilled. UEC is amending the proposed location of WDW-447 within the facility.

The UEC Burke Hollow Project is engaged in in situ uranium mining and well field restoration operations. The principal waste that will be routinely injected is industrial non-hazardous wastewater generated from in situ uranium mining and well field restoration operations. Wastes generated from Burke Hollow Project will include barren lixiviant purge, eluat purge, well and filter backwash, aquifer restoration water, contaminated process area wastewater, and on-site laboratory waste. Other associated wastes such as groundwater and rainfall contaminated by the above authorized wastes, spills of the above authorized wastes, and wash waters and solutions used in cleaning and servicing the waste disposal well system equipment which are compatible with the permitted waste streams, injection zone and well materials.

The wastewater proposed for injection into the proposed WDW-447 and WDW-448 injection wells will consist of a composite of a number of individual waste streams described in Table IX.A of the permit application. The pH of injected waste streams shall be greater than 4.0 and less than 12.0. The specific gravity will not exceed the permitted limit of 1.10 centipoise as measured at 60°F.

This UEC application has demonstrated to a reasonable degree of certainty that there will be no migration of non-hazardous waste from the Injection Zone. Information submitted in this UIC

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Permit Application Renewal demonstrates that subsurface injection of the waste stream is protective of human health and the environment. Therefore, the company is confident that injection of waste at the UEC Burke Hollow facility is the best technology available for disposal of the waste stream.

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Adjunto E

Resumen en lenguaje sencillo

Corporación Uranium Energy WDW-447 y WDW-448
Aplicación De Renovación De Permiso Para Desecho de Residuos En Un Pozo De Inyección Clase I

El aplicante es Corp Energía de Uranio (referida as UEC por sus siglas en inglés). Esta aplicación y el documento técnico de soporte es para un permiso para deshacerse de desechos en un pozo de inyección Clase I. UEC esta pidiendo la renovación de dos permisos para dos pozos no perforados, los cuales están actualmente permitidos como pozos de desecho WDW-447 (propuesto) y WDW-448 (propuesto). El desecho inyectado en los pozos será agua de desecho generada primordialmente durante la minería de uranio in situ y por operaciones de restoración del campo de pozos, el cual esta localizado tres millas al sur de la Autopista Woodsboro 77 en el Condado de Bee, Texas.

UEC también solicita una enmienda al permiso de WDW-447. WDW-447 y WDW-448 son pozos propuestos y no han sido perforados. UEC está modificando la ubicación propuesta de WDW-447 dentro de las instalaciones.

El Proyecto Burke Hollow de UEC está ocupado en la minería in situ de uranio y en operaciones de restoración de campo de pozos. El desecho principal que será rutinamente inyectado es agua de desecho industriales no peligrosas generadas la minería de uranio in situ y por operaciones de restoración del campo de pozos. Desechos generados del Proyecto Burke Hollow incluyen purga de lixiviados estériles, purga de eluato, retrolavado de pozo y filtro, agua de restoración de aquífero, agua de desecho de área de proceso contaminada, y desecho del laboratorio in situ. Otros desechos asociados como agua subterránea y agua de lluvia contaminada por los desechos autorizados arriba, derrames de los desechos autorizados arriba, y aguas de lavado y soluciones usadas en la limpieza y mantenimiento del equipo del sistema del pozo de inyección de desecho los cuales son compatibles con los flujos de desecho permitidos, la zona de inyección y los materiales del pozo.

El agua de desecho propuesta para inyección en los propuestos pozos de inyección WDW-447 y WDW-448 consistirá de un compuesto de un número de flujos de desecho individuales descritos en la Tabla IX.A de la aplicación de permiso. El pH de de los flujos de de desecho inyectados

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será mayor que 4.0 y menor que 12.0. La gravedad específica no excederá el limite permitido de 1.10 centipoise como es medido a 60 °F.

Esta aplicación de UEC ha demostrado a un grado razonable de certitud que no habrá migración de desechos no-peligrosos desde la Zona de Inyección. La información presentada en esta Aplicación de Renovación de Permiso de UIC demuestra que la inyección subterránea del flujo de desecho protege and la salud humana y ambiental.

Por consiguiente, la compañía confía que la inyección de desechos en la facilidad de Burke Hollow de UEC es la mejor tecnología disponible para el desecho del flujo de desecho.

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ATTACHMENT F

Public Involvement Plan

ATTACHMENT F PUBLIC INVOLVEMENT PLAN

The TCEQ's Public Participation Plan provides guidance for using preliminary screening and public involvement plans to ensure meaningful public outreach. Applicants who are applying for a new injection well permit are required to complete a Public Involvement Plan.

This permit application is for the renewal of permits WDW-447 (proposed) and WDW-448 (proposed) and does not request a new injection well permit. Therefore, a Public Involvement Plan is not required and a Public Involvement Plan has not been included in this application.

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Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☐ New Permit or Registration Application

☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☐ Requires public notice,

☐ Considered to have significant public interest, **and**

☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☐ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☒ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

ATTACHMENT G

Affected Land and Mineral Owners

Burke Hollow
Surface & Mineral Owners

REVISED 5/5/2025

N

WDW 447

WDW 448

Legend

Mine Permit

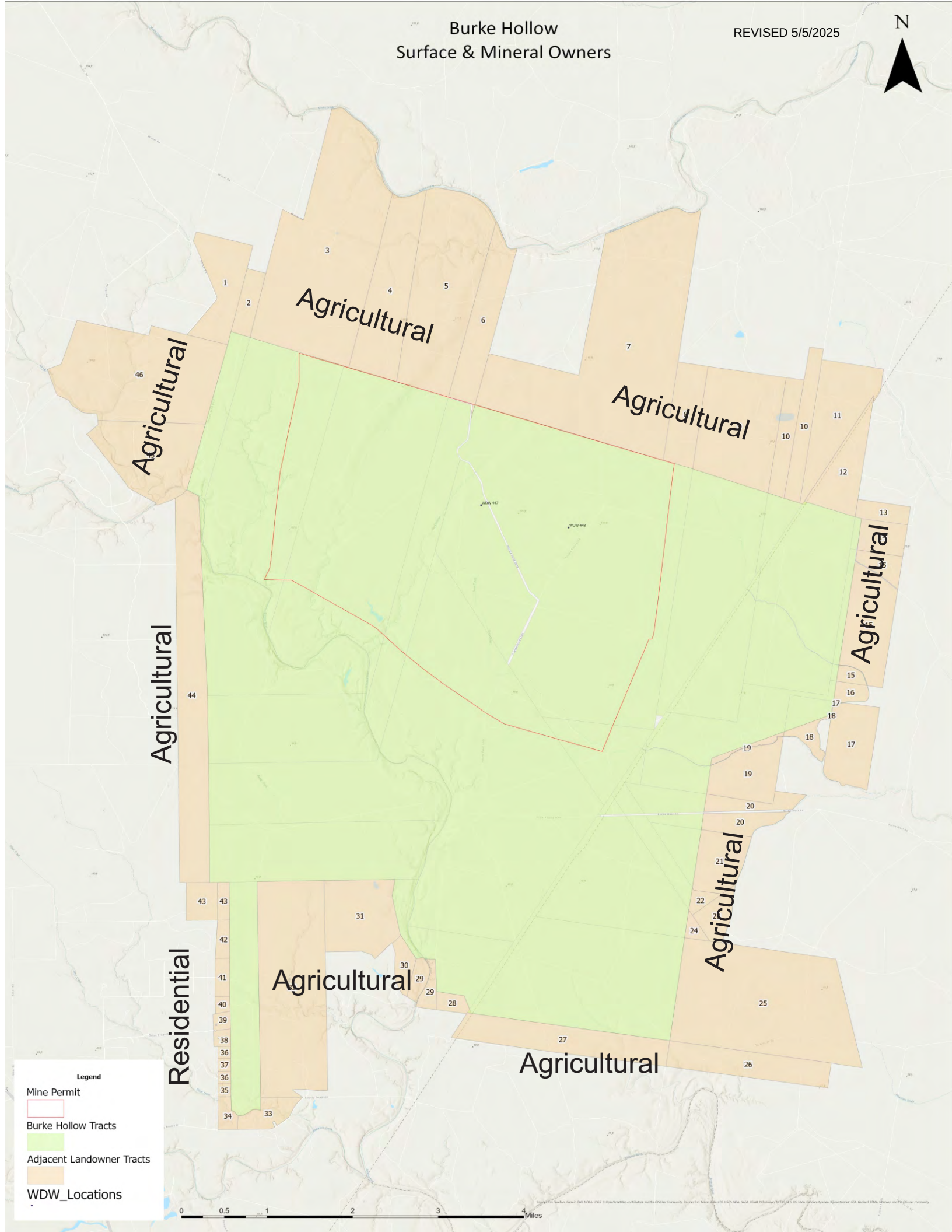
Burke Hollow Tracts

Adjacent Landowner Tracts

WDW_Locations

0 0.5 1 2 3 4 Miles

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community


Burke Hollow
Surface & Mineral Owners
REVISED 5/5/2025
N
Agricultural
Agricultural
Agricultural
Agricultural
Agricultural
Agricultural
Agricultural
Residential
Legend
Mine Permit
Burke Hollow Tracts
Adjacent Landowner Tracts
WDW_Locations
0
0.5
1
2
3
4
Miles

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
SURFACE OWNERS	**Address 1**	**City, State, Zip Code**		**TRACT NUMBER(s)**
Wicker Family Properties, Ltd	P.O. Box 880	Beeville, TX 78104		1
RCB Milagros Ranch Ltd., Rober Braugh, Jr. Manager	7 Hewitt Dr.	Corpus Christi, TX 78404		2,3,4
Keleigh D. Hughes Sasser Heritage Trust	45 Hewitt Place	Corpus Christi, TX 78404		5,6,7,8
Michael J. & Katie Knight	P.O. Box 50	Mineral, TX 78125		9
Charles K. & Sharon M. Miller	4260 Beacon St.	Corpus Christi, TX 78405		10
Ranch 3 Bar S LC, c/o Nicholas Swyka	2125 Bellmeade St	Houston, TX 77019		11,12,13
J. F. Welder Heirs (Surface Owner)	P O BOX 1159	Victoria, TX 77902		14,15,16,17
O'Driscoll Roche Ltd	P.O. Box 2950	San Antonio, TX 78299		18,19,20,21,22, 23,24,25,26
Kathleen Driscoll-Roche	P.O. Box 2950	San Antonio, TX 78299		18,19,20,21,22, 23,24,25,26
K R Trust, c/o John Schmedemann, Frost National Bank	P.O. Box 1600	San Antonio, TX 78296		18,19,20,21,22, 23,24,25,26
Zorilla-Malone Properties, Ltd	P.O. Box 1045	Refugio, TX 78377		27, 28
Mary Madeline O'Connor Family Non-Exempt Trust	P.O. Box 1398	Victoria, TX 77904		27, 28
Mary Madeline O'Connor Family Exempt Trust	P.O. Box 1398	Victoria, TX 77904		27, 28
Turnbull Land & Cattle,Ltd	401 Grant Pl	Corpus Christi, TX 78401		29,30,31
John J. Carr, Jr.	1915 CR 631	Sinton, TX 78387		29,30,31
Turnbull Land & Cattle,Ltd	401 Grant Pl	Corpus Christi, TX 78401		32
Turnbull Land & Cattle,Ltd	401 Grant Pl	Corpus Christi, TX 78401		33

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Kent L. & Jana Lin Kent (Surface Owners)	3837 Denver Ave.	Corpus Christi, TX 78411		34
Bradley Leighton Murphy	510 W. Bailey	Refugio, TX 78377		35
Cecilio & Marcy Rodriguez	142 Kayleti Ln	Sinton, TX 78387		36
Richard Egli	10593 CR 628	Sinton, TX 78387		37
James Howard Bendele	9304 Letcombe	San Antonio, TX 78254		37
Huston & Benifer Broughton	1064 Silver Creek Rd	Sinton, TX 78387		38
Larry & Catherine Teel	1063 Silver Creek Rd	Sinton, TX 78387		39
Marilyn L. Buster	979 Silver Creek Rd.	Sinton, TX 78387		40
Rodney James Duve	P.O. Box 271312	Corpus Christi, TX 78427		41
Phil Howard	P.O. Box 1801	Fulton, TX 78358		42
Rosendo & Laura Arreolo	P.O. Box 7062	Corpus Christi, TX 78467		43
Roche Ranch Properties, Ltd	P.O. Box 749	Corpus Christi, TX 78403		44
Landon & Tracy Ehlinger	5820 Lira Rd.	Manvel, TX 77578		45,46
MINERAL OWNERS	**Address 1**			**TRACT NUMBER**
Burke Hollow Corporation	6363 Woodway Ste 630	Houston, TX 77057-1714	Contiguous Property where facility is located	
Breidenbach Family Properties Ltd	P.O. Box 546	Beeville, TX 78104		1
Edward Heard Wicker	P.O. Box 880	Beeville, TX 78104		1
Diana Carrillos de Menddoza Osborne	Paseo del Hontanar N1, Casa 84	28223, Pozuelo de Alarcan, Madrid, Spain		1
Elena Sanchez Osborne	Paseo del Hontanar N1, Casa 84	28223, Pozuelo de Alarcan, Madrid, Spain		1
John Morgan O'Brien, III, and wife, Beau Robin O'Brien	P. O. Box 1052	Refugio, TX 78377		2,3,4

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
John Morgan O'Brien, IV	P. O. Box 1052	Refugio, TX 78377		2,3,4
T. Partnership I, LLC	J. Wison Toudouze, Manager	14014 Gingerwood, San Antionio, TX 78231		2,3,4
Susan T. Brotherman	229 Jeanette Dr.	San Antonio, TX 78216		2,3,4
Nancy T. Starr	16406 Hillview Pass Dr.	San Antonio, TX 78247		2,3,4
Sally A.Toudouze	3203 Woodcliff	San Antonio, TX 78230		2,3,4
Charles A. Toudouze, Jr.	21370 Toudouze Rd.	San Antonio, TX 78264		2,3,4
Kathleen T.Weirlich	19814 Big Timber	Humble,TX 77346		2,3,4
J.Wilson Toudouze	14014 Gingerwood	San Antonio, TX 78231		2,3,4
Bernice M. Heard	503 Power St.	Refugio, TX 78377		2,3,4
Robert W. Heard	2115 Kenilworth Blvd.	San Antonio, TX 78209		2,3,4
The Anthony Barron Heard Trust, Robert W. Heard, Trustee	2115 Kenilworth Blvd.	San Antonio, TX 78209		2,3,4
The Robert Clinton Heard Trust, Robert Clinton Heard, Trustee	14026 Fairway Hill	San Antonio, TX 78217		2,3,4
The James David Heard Trust, James David Heard, Trustee	414 Prinz	San Antonio, TX 78213		2,3,4
The Kristina Kathleen Dupre Trust, Kristina Kathleen Dupre, Trustee	503 Burnside	San Antonio, TX 78209		2,3,4
Est. of Theodore Walton Gray, C/O James Gray	126 W. Hickory St.	Granite Shoals, TX 78654		2,3,4
Martha Anne Bauer Family Management, Ltd., Martha a. Bauer, Manager	2343 Country Grace	New Braunfels, TX 78130		2,3,4
T. M. Quigley	4699 Gravel Pit Rd.	Sequin, TX 78155		2,3,4
Est.of F. William Foran, Forrest Eric Foran, Ind. Executor	1801 LaVaca St. Suite 14J	Austin, TX 78701		2,3,4
Lee Ann Mathers Little	59 Eton Green Circle	San Antonio, TX 78257		2,3,4

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Robert Randall Mathers, Jr.	5000 Sol Rd.	Brownsville, TX 78520		2,3,4
Jean Marie Mathers Kreuz	10426 SH 149	Longview, TX 75603		2,3,4
Frank E. Mathers	600 Riverside	Brownsville, TX 78520		2,3,4
Neal J. Mathers	5213 Somerset	Brownsville, TX 78520		2,3,4
William B. Mathers	4975 Lakeway Dr	Brownsville, TX 78520		2,3,4
Charles D. Mathers	600 Riverside	Brownsville, TX 78520		2,3,4
Robert Mathers	1263 Turtle Creek Dr.	Brownsville, TX 78520		2,3,4
James Edward Bauer, III	P. O. Box 594	Refugio, TX 78377		2,3,4
Cyrus Christopher Bauer	807 N. Alamo	Refugio, TX 78377		2,3,4
Deborah Ann Bauer	1008 Power St.	Refugio, TX 78377		2,3,4
Clement Joseph Bauer	P. O. Box 184	Refugio, TX 78377		2,3,4
William Karl Bauer				2,3,4
Claire Elizabeth Bauer Linscomb	P. O. Box 273	Refugio, TX 78377		2,3,4
Kurt Fox Bauer	166 Kelley Road	Refugio, TX 78377		2,3,4
Fox-Bauer Minerals, LLC, Attn: Deborah Bauer, Mgr.	1008 Power St.	Refugio, TX 78377		2,3,4
Est. of Alva Gene Allen, C/O Patti J. Allen	4401 Sue Circle	Corpus Christi, TX 78410		2,3,4
Keleigh D. Hughes Sasser, as Trustee of the Keleigh D. Hughes Sasser Heritage Trust	45 Hewitt Place	Corpus Christi, TX 78404		5,6,7,8
Dan Allen Hughes, Jr., as Trustee of the Dan Allen Hughes, Jr. Heritage Trust	745 E. Mulberry Ste. 100	San Antonio, TX 78212		5,6,7,8
Philip Hilton Hughes, as 2nd Successor Trustee of the William Hilton Hughes Heritage Trust, C/O Keleigh D. Hughes Sasser	P.O. Box 4159	Beeville, TX 78104		5,6,7,8
Mary McCurdy Welder	801 N. Adams	Beeville, TX 78102		9

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Josephine Welder Miller	801 N. Adams	Beeville, TX 78102		9
Rebecca Morissette	P.O. Box 941	Groveland, FL 34736		9
Louise Welder Hall	P.O. Box D	Beeville, TX 78104		9
R.J. Welder Ranch, Ltd	115 E. Travis Ste. 900	San Antonio, TX 78205		9
Michael J. Knight	P.O. Box 50	Mineral, TX 78125		9
Katie Knight	P.O. Box 50	Mineral, TX 78125		9
Mary McCurdy Welder	801 N. Adams	Beeville, TX 78102		10
Josephine Welder Miller	801 N. Adams	Beeville, TX 78102		10
Rebecca Morissette	P.O. Box 941	Groveland, FL 34736		10
Louise Welder Hall	P.O. Box D	Beeville, TX 78104		10
R.J. Welder Ranch, Ltd	P.O. Box 1609	Fredericksburg TX 78624		10
Michael J. Knight	P.O. Box 50	Mineral, TX 78125		10
Katie Knight	P.O. Box 50	Mineral, TX 78125		10
Lawrence S. Searcy	1 Glendalough Ct	San Antonio, TX 78209		11,12,13
Catherine Searcy Finn	6 Glenchester Ct	Dallas, TX 75225		11,12,13
Bar 3L LLC, c/o Perry L. Dudden	P.O. Box 2917	Port Aransas, TX 78373		11,12,13
B.H.C.H. Mineral, Ltd		San Antonio, TX 78296		11,12,13
William Christopher Bush	P.O. Box 1013	Refugio, TX 78377		11,12,13
Catherine S. Finn Revocable Trust	P.O. Box 542645	Dallas, TX 75354		11,12,13
Catherine Searcy Finn Exempt Trust, c/o Northern Trust Co.	P.O. Box 565887	Dallas, TX 75356		11,12,13
Catherine Searcy Finn Non-Exempt Trust, c/o ICG Minerals	P.O. Box 565887	Dallas, TX 75356		11,12,13
Claire Searcy Grassedonio	1400 E. Ocean Drive	Corpus Christi, TX 78404		11,12,13
Claire Searcy Grassedonio Trust, Roy & Claire Grassedonio Trustees	1400 E. Ocean Drive	Corpus Christi, TX 78404		11,12,13

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Claire S. Grassedonio Revocable Trust, Roy & Claire Grassedonio Trustees	1400 E. Ocean Drive	Corpus Christi, TX 78404		11,12,13
Hunter Lambert Urrutia Searcy, c/o American Bank N.A. Trustee	P.O. Box 6771	Corpus Christi, TX 78403		11,12,13
Searcy Family Trust, c/o American Bank N.A. Trustee	P.O. Box 6771	Corpus Christi, TX 78403		11,12,13
Lawrence S. Searcy Family Trust	1 Glendalough Ct	San Antonio, TX 78209		11,12,13
Aubrey K. Searcy	1 Glendalough Ct	San Antonio, TX 78209		11,12,13
Ellen Rush	5111 Broadway St.	San Antonio, TX 78209		11,12,13
Tierra Padre Partners, c/o Shannon M. Wood	P.O. Box 1007	Refugio, TX 78377		11,12,13
Roy Grassedonio	1400 E. Ocean Drive	Corpus Christi, TX 78404		11,12,13
Shannon M. Wood Bush	P.O. Box 1007	Refugio, TX 78377		11,12,13
Bryan Wood Searcy	3219 Leyte St.	San Antonio, TX 78217		11,12,13
Tyson David Searcy, c/o Perry L. Dudden	P.O. Box 2917	Port Aransas, TX 78373		11,12,13
Patrick Lambert Searcy II, c/o Protection Trust	P.O. Box 6771	Corpus Christi, TX 78466		11,12,13
Peter L. J. Wood	P.O. Box 1011	Refugio, TX 78377		11,12,13
Richard L. Wood, Jr	P.O. Box 1007	Refugio, TX 78377		11,12,13
Tobias B. Wood	P.O. Box 1011	Refugio, TX 78377		11,12,13
Lambert -Richard Lambert Wood (Inter-vivos) Trust, c/o Wells Fargo Bank N.A.	615 Upper North Broadway	Corpus Christi,TX 78403		11,12,13
Lambert -Catherine Elizabeth Searcy (Inter-vivos) Trust, c/o Wells Fargo Bank N.A.	615 Upper North Broadway	Corpus Christi,TX 78403		11,12,13

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Lambert -James Lawrence Wood (Inter-vivos) Trust, c/o Wells Fargo Bank N.A.	615 Upper North Broadway	Corpus Christi,TX 78403		11,12,13
James Lawrence Wood	P.O. Box 1007	Refugio, TX 78377		11,12,13
Mary Jean Farley Trust	P.O. Box 900	Corpus Christi, TX 78403		11,12,13
Catherine E. Searcy, c/o ICG Minerals	P.O. Box 565887	Dallas, TX 75356		11,12,13
Richard Lambert Wood	P.O. Box 1007	Refugio, TX 78377		11,12,13
Roger F. Welder	2406 Lower Mission Valley Rd.	Victoria, TX 77905		14,15,16,17
Leo J. Welder, Jr.	345 Grant Pl.	Corpus Christi, TX 78411		14,15,16,17
Elizabeth Welder	P O BOX 15153	Austin, TX 78715		14,15,16,17
Bevans C. Welder	8118 Marseille	Corpus Christi, TX 78414		14,15,16,17
William S. Welder	639 E. Ave. B	Port Aransas, TX 78373		14,15,16,17
Lucille Welder Brower Revocable Trust	c/o Lucile W. Beshara, Trustee	3146 E 58th Pl Tulsa, OK 74105		14,15,16,17
Leo J. Welder, III	4357 Cuna Dr.	Santa Barbara, CA 93110		14,15,16,17
Kathleen W. Mollow	9 Eldrege St.	Newton, MA 02458		14,15,16,17
Madeline Smith Welder	47 Salem Ave.	Ashville, NC 28804		14,15,16,17
William Callan Welder	1394 South Fork Rd	Marshall, NC 28753		14,15,16,17
Roger F. Welder, Jr.	503 Champion Row	Victoria, TX 77904		14,15,16,17
Philip Portilla Welder	403 Cedar Ridge Dr	Pflugerville, TX 78660		14,15,16,17
William Hugh Welder	2229 Ward Parkway	Fort Worth, TX 76110		14,15,16,17
W. M. Murphy, III	P.O. Box 1307	Victoria, TX 77902		14,15,16,17
Melita Murphy Worsham	205 Pasadena	Victoria, TX 77904		14,15,16,17
Madeline Murphy Tyng	410 N Vine St.	Victoria, TX 77901		14,15,16,17
Lisa Murphy Bowen	205 E. Wildwood	San Antonio, TX 78212		14,15,16,17
Lisa M. Bowen Mineral Estate Trust	Darrell Cooper Trustee	14101 S Green Hills Loop Austin, TX 78737		14,15,16,17

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Melita M. Worsham Mineral Estate Trust	c/o Jefferson State Bank	1900 Broadway, Ste.900 San Antonio, TX 78215		14,15,16,17
William M. Murphy, III Mineral Estate Trust	c/o Argent Trust Company	725 E Mulberry, Ste 400 San Antonio, TX 78212		14,15,16,17
Madeline Tyng Mineral Estate Trust	c/o First National Bank Port Lavaca	1101 Hwy 35 South Bypass Port Lavaca, TX 77979		14,15,16,17
W. D. Welder, Jr	8016 SH 111 E, Yoakum. TX 77995	8016 SH 111 E, Yoakum. TX 77995		14,15,16,17
Carol J. Welder	c/o W.D.Welder, Agent & AIF	8016 SH 111 E, Yoakum. TX 77995		14,15,16,17
Katie Welder Stewart	c/o W.D.Welder, Agent & AIF	8016 SH 111 E, Yoakum. TX 77995		14,15,16,17
Carmelo Leo Danna III	c/o W.D.Welder, Agent & AIF	8016 SH 111 E, Yoakum. TX 77995		14,15,16,17
William Davis Danna	c/o W.D.Welder, Agent & AIF	8016 SH 111 E, Yoakum. TX 77995		14,15,16,17
Kristen Stewart Frank	c/o W.D.Welder, Agent & AIF	8016 SH 111 E, Yoakum. TX 77995		14,15,16,17
Kara Stewart Trail	c/o W.D.Welder, Agent & AIF	8016 SH 111 E, Yoakum. TX 77995		14,15,16,17
Jennifer Lamsens	2204 Ashland Ave	Ft. Worth, TX 76107		14,15,16,17
Christy Welder	240 E. 82nd St. #7G	New York, NY 10028		14,15,16,17
Rebecca Welder Manley	392 Clinton St. #4	Brooklyn, NY 11231		14,15,16,17
James Welder	107 Sussex Dell Dr	Victoria, TX 779045		14,15,16,17
Diana Welder Ralph	P.O. Box 2592	Rockport, TX 78381		14,15,16,17
Victoria Anne Welder Rev. Trust	Scott D. Welder, Trustee	8016 SH 111 E, Yoakum. TX 77995		14,15,16,17
Victoria Anne Welder Rev. Trust	Brian E. Welder, Trustee	8016 SH 111 E, Yoakum. TX 77995		14,15,16,17

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Victoria Anne Welder Rev. Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Scott Davis Welder Revocable Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Brian Edward Welder, Revocable Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Leo J. Welder Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
William Smith Welder Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Bevans Callan Welder Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Elizabeth Wood Welder Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Roger Fleming Welder Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Lucile Brower Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Carol J. Welder Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
William Davis Welder Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Scott Welder Revocable Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Brian Welder Revocable Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Victoria Anne Welder Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Katie Stewart Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Madeline Murphy Tyng Dodson Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
William M. Murphy, III Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Melita M. Zafereo Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
Lisa Bowen Trust, c/o J.P. Morgan Chase Bank Tr.	P.O. BOX 565887	Dallas, TX 75356		14,15,16,17
K R Trust, c/o Kathleen Driscoll Roche, Trustee	P.O. Box 2950	San Antonio, TX 78299		18,19,20,21,22, 23,24,25,26
Kathleen Driscoll-Roche Grantor Trust, c/o Frost National Bank	P.O. Box 13929	Arlington, TX 76094		18,19,20,21,22, 23,24,25,26
Walter L. Roche, Jr.				18,19,20,21,22, 23,24,25,26
Kathleen Driscoll Roche, c/o Frost National Bank	P.O. Box 1600	San Antonio, TX 78296		18,19,20,21,22, 23,24,25,26
Cynthia K. Roche Trust, Cynthia K. Roche Trustee c/o John Schmedemann, Frost National Bank	P.O. Box 1600	San Antonio, TX 78296		18,19,20,21,22, 23,24,25,26
Kathleen Driscoll Roche Irrevocable Trust, c/o Frost National Bank	P.O. Box 1600	San Antonio, TX 78296		18,19,20,21,22, 23,24,25,26

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Cynthia K. Roche Grantor Trust, c/o Frost National Bank	P.O. Box 1600	San Antonio, TX 78296		18,19,20,21,22, 23,24,25,26
Diane Roche	601 W. Pleasant St.	Coalinga, CA 93210		18,19,20,21,22, 23,24,25,26
Zorilla-Malone Properties, Ltd	P.O. Box 1045	Refugio, TX 78377		27, 28
Mary Madeline O'Connor Family Non-Exempt Trust	P.O. Box 1398	Victoria, TX 77904		27, 28
Mary Madeline O'Connor Family Exempt Trust	P.O. Box 1398	Victoria, TX 77904		27, 28
Catherine Carr Davis	710 Buffalo, Ste. 211	Corpus Christi, TX 78401		29,30,31
Carr Ranches, Ltd	710 Buffalo, Ste. 211	Corpus Christi, TX 78401		29,30,31
Turnbull Land & Cattle,Ltd	401 Grant Pl	Corpus Christi, TX 78401		29,30,31
John J. Carr, Jr.	1915 CR 631	Sinton, TX 78387		29,30,31
Catherine Carr Davis	710 Buffalo, Ste. 211	Corpus Christi, TX 78401		32
Carr Ranches, Ltd	710 Buffalo, Ste. 211	Corpus Christi, TX 78401		32
Turnbull Land & Cattle,Ltd	401 Grant Pl	Corpus Christi, TX 78401		32
John J. Carr, Jr.	1915 CR 631	Sinton, TX 78387		32
Bradley Leighton Murphy	512 W.Bradley	Refugio, TX 78377		33
Lori J. Murphy Veteto	3237 Founders Dr	Bryan, TX 77807		33
John Mitchell Murphy	P.O.Box 864	Refugio, TX 78377		33
Matthew Michael Murphy	6206 Shadow Mountain Dr	Austin, TX 78731		33
Megan Murphy Laibovitz	6206 Shadow Mountain Dr	Austin, TX 78731		33
Malaise E. Murphy Norfleet	5809 Republic of Texas Blvd.	Austin, TX 78735		33
Richard Michael Murphy	6206 Shadow Mountain Dr	Austin, TX 78731		33
Bradley Leighton Murphy	512 W.Bradley	Refugio, TX 78377		34
Lori J. Murphy Veteto	3237 Founders Dr	Bryan, TX 77807		34
John Mitchell Murphy	P.O.Box 864	Refugio, TX 78377		34
Matthew Michael Murphy	6206 Shadow Mountain Dr	Austin, TX 78731		34
Megan Murphy Laibovitz	6206 Shadow Mountain Dr	Austin, TX 78731		34

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Malaise E. Murphy Norfleet	5809 Republic of Texas Blvd.	Austin, TX 78735		34
Richard Michael Murphy	6206 Shadow Mountain Dr	Austin, TX 78731		34
The Beverly Davydiuk Family Trust, c/o Rhenetta Petterson	3105 Green Country Ct	Bedford, TX 76021		35
Jimmy & Mildred Emerson	5209 Congressional Dr	College Station, TX 77845		35
Richard Egli	10593 CR 628	Sinton, TX 78387		35
Joseph Dumenil Revocable Trust	8657 Willow Wind Dr	Boerne, TX 78015		35
Lindsey Dumenil	126 Surfrider St	San Antonio, TX 78242		35
Jennifer Rebecca (Dumenil) Young	15134 Smarty Jones Dr	Noblesville, IN 46060		35
James Howard Bendele	9304 Letcombe	San Antonio, TX 78254		35
Cynthia Page	27122 Autumn Spg	Boerne, TX 78006		35
Bradley Leighton Murphy	510 W. Bailey	Refugio, TX 78377		35
John Mitchell Murphy	701 W. Fannin St.	Refugio, TX 78377		35
Lori Veteto	3525 Black Oak Dr	Corpus Christi, TX 78418		35
Jimmy & Mildred Emerson	5209 Congressional Dr	College Station, TX 77845		36
Vicki Ruth Bonner	P.O. Box 879	Camp Wood, TX 78833		36
Jimmy & Mildred Emerson	5209 Congressional Dr	College Station, TX 77845		37
Richard Egli	10593 CR 628	Sinton, TX 78387		37
Joseph Dumenil Revocable Trust	8657 Willow Wind Dr	Boerne, TX 78015		37
Lindsey Dumenil	126 Surfrider St	San Antonio, TX 78242		37
Jennifer Rebecca (Dumenil) Young	15134 Smarty Jones Dr	Noblesville, IN 46060		37
James Howard Bendele	9304 Letcombe	San Antonio, TX 78254		37
Cynthia Page	27122 Autumn Spg	Boerne, TX 78006		37
Jimmy & Mildred Emerson	5209 Congressional Dr	College Station, TX 77845		38
Vicki Ruth Bonner	P.O. Box 879	Camp Wood, TX 78833		38

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Jimmy & Mildred Emerson	5209 Congressional Dr	College Station, TX 77845		39
Vicki Ruth Bonner	P.O. Box 879	Camp Wood, TX 78833		39
Crow-Western Land Company, John Rippel-Agent	2925 Briarpark #1220	Houston, TX 77042		40
Marilyn L. Buster	979 Silver Creek Rd.	Sinton, TX 78387		40
Katherine Matejka Liggett	98-1140 Kaamilo St.	Aiea, HI 96701		40
Nancy Sheetz	10738 Anita Dr.	Lorton, VA 22079		40
Nancy Sheetz Stone	5212 Heming Ave.	Springfield, VA 22151		40
Roy Anthony Sheeetz	5307 Duvall Dr.	Washington, DC 20016		40
Dell Rollins	713 Brock Dr	Corpus Christi, TX 78412		41
Clara Y. Wilson	6946 Aswan Dr	Corpus Christi, TX 78412		41
John R. Yarbrough	4608 Fairmont Ave	Pascagoula, MS 39567		41
Phil Howard	P.O. Box 1801	Fulton, TX 78358		42
Rosendo & Laura Arreolo	P.O. Box 7062	Corpus Christi, TX 78467		43
Kimberly Marie Fall	923 E. Bluebonnet Dr.	San Marcos, TX 78666		43
Tara Ann Herren	P.O. Box 211	Cost, TX 78614		43
K R Trust, c/o Kathleen Driscoll Roche, Trustee	P.O. Box 2950	San Antonio, TX 78299		44
Kathleen Driscoll-Roche Grantor Trust, c/o Frost National Bank	P.O. Box 13929	Arlington, TX 76094		44
				44
Kathleen Driscoll Roche, c/o Frost National Bank	P.O. Box 1600	San Antonio, TX 78296		44
Cynthia K. Roche Trust, Cynthia K. Roche Trustee c/o John Schmedemann, Frost National Bank	P.O. Box 1600	San Antonio, TX 78296		44

BURKE HOLLOW CORPORATION ADJACENT SURFACE AND MINERAL OWNERS				
Kathleen Driscoll Roche Irrevocable Trust, c/o Frost National Bank	P.O. Box 1600	San Antonio, TX 78296		44
Cynthia K. Roche Grantor Trust, c/o Frost National Bank	P.O. Box 1600	San Antonio, TX 78296		44
Diane Roche	601 W. Pleasant St.	Coalinga, CA 93210		44
Breidenbach Family Properties Ltd	P.O. Box 546	Beeville, TX 78104		45,46
Edward Heard Wicker	P.O. Box 880	Beeville, TX 78104		45,46
Diana Carrillos de Menddoza Osborne	Paseo del Hontanar N1, Casa 84	28223, Pozuelo de Alarcan	Madrid, Spain	45,46
Elena Sanchez Osborne	Paseo del Hontanar N1, Casa 84	28223, Pozuelo de Alarcan	Madrid, Spain	45,46
Anna Claire Heard Pariseau Trust, Bank of America, Trustee	5500 Preston Rd.	Dallas, TX 75205		45,46

WICKER FAMILY PROPERTIES LTD
P O BOX 880
BEEVILLE TX 78104

RCB MILAGROS RANCH LTD
7 HEWITT DR
CORPUS CHRISTI TX 78404

KELEIGH D HUGHES SASSER
45 HEWITT PL
CORPUS CHRISTI TX 78404

MICHAEL AND KATIE KNIGHT
P O BOX 50
MINERAL TX 78125

CHARLES AND SHARON MILLER
4260 BEACON ST
CORPUS CHRISTI TX 78405

RANCH 3 BAR S LC
2125 BELLMEADE ST
HOUSTON TX 77019

J F WELDER HEIRS
P O BOX 1159
VICTORIA TX 77902

ODRISCOLL ROCHE LTD
P O BOX 2950
SAN ANTONIO TX 78299

KATHLEEN DRISCOLL ROCHE
P O BOX 2950
SAN ANTONIO TX 78299

K R TRUST
P O BOX 1600
SAN ANTONIO TX 78296

ZORILLA MALONE PROPERTIES LTD
P O BOX 1045
REFUGIO TX 78377

MARY MADELINE OCONNOR FAMILY
NON EXEMPT TRUST
P O BOX 1398
VICTORIA TX 77904

MARY MADELINE OCONNOR FAMILY
EXEMPT TRUST
P O BOX 1398
VICTORIA TX 77904

TURNBULL LAND AND CATTLE LTD
401 GRANT PL
CORPUS CHRISTI TX 78401

JOHN J CARR JR
1915 CR 631
SINTON TX 78387

KENT L AND JANA LIN KENT
3837 DENVER AVE
CORPUS CHRISTI TX 78411

BRADLEY LEIGHTON MURPHY
510 W BAILEY
REFUGIO TX 78377

CECILIO AND MARCY RODRIGUEZ
142 KAYLETI LN
SINTON TX 78387

RICHARD EGLI
10593 CR 628
SINTON TX 78387

JAMES HOWARD BENDELE
9304 LETCOMBE
SAN ANTONIO TX 78254

HUSTON AND BENIFER BROUGHTON
1064 SILVER CREEK RD
SINTON TX 78387

LARRY AND CATHERINE TEEL
1063 SILVER CREEK RD
SINTON TX 78387

MARILYN L BUSTER
979 SILVER CREEK RD
SINTON TX 78387

RODNEY JAMES DUVE
P O BOX 271312
CORPUS CHRISTI TX 78427

PHIL HOWARD
P O BOX 1801
FULTON TX 78358

ROSENDO AND LAURA ARREOLO
P O BOX 7062
CORPUS CHRISTI TX 78467

ROCHE RANCH PROPERTIES LTD
P O BOX 749
CORPUS CHRISTI TX 78403

LANDON AND TRACY EHLINGER
5820 LIRA RD
MANVEL TX 77578

BREIDENBACH FAMILY PROPERTIES
LTD
P O BOX 546
BEEVILLE TX 78104

EDWARD HEARD WICKER
P O BOX 880
BEEVILLE TX 78104

DIANA CARRILLOS DE MENDDOZA OSBORNE
PASEO DEL HONTANAR N1 CASA 84
28223 POZUELO DE ALARCAN
MADRID SPAIN

ELENA SANCHEZ OSBORNE
PASEO DEL HONTANAR N1 CASA 84
28223 POZUELO DE ALARCAN
MADRID SPAIN

JOHN MORGAN OBRIEN III AND BEAU ROBIN OBRIEN
P O BOX 1052
REFUGIO TX 78377

JOHN MORGAN OBRIEN IV
P O BOX 1052
REFUGIO TX 78377

T PARTNERSHIP I LLC
14014 GINGERWOOD
SAN ANTONIO TX 78231

SUSAN T BROTHERMAN
229 JEANETTE DR
SAN ANTONIO TX 78216

NANCY T STARR
16406 HILLVIEW PASS DR
SAN ANTONIO TX 78247

SALLY A TOUDOUZE
3203 WOODCLIFF
SAN ANTONIO TX 78230

CHARLES A TOUDOUZE JR
21370 TOUDOUZE RD
SAN ANTONIO TX 78264

KATHLEEN T WEIRICH
19814 BIG TIMBER
HUMBLE TX 77346

J WILSON TOUDOUZE
14014 GINGERWOOD
SAN ANTONIO TX 78231

BERNICE M HEARD
503 POWER ST
REFUGIO TX 78377

ROBERT W HEARD
2115 KENILWORTH BLVD
SAN ANTONIO TX 78209

THE ANTHONY BARRON HEARD TRUST
2115 KENILWORTH BLVD
SAN ANTONIO TX 78209

THE ROBERT CLINTON HEARD TRUST
14026 FAIRWAY HL
SAN ANTONIO TX 78217

THE JAMES DAVID HEARD TRUST
414 PRINZ
SAN ANTONIO TX 78213

THE KRISTINA KATHLEEN DUPRE TRUST
503 BURNSIDE
SAN ANTONIO TX 78209

ESTATE OF THEODORE WALTON GRAY
126 W HICKORY ST
GRANITE SHOALS TX 78654

MARTHA ANNE BAUER FAMILY MANAGEMENT LTD
2343 COUNTRY GRACE
NEW BRAUNFELS TX 78130

T M QUIGLEY
4699 GRAVEL PIT RD
SEQUIN TX 78155

ESTATE OF WILLIAM FORAN
1801 LAVACA ST STE 14J
AUSTIN TX 78701

LEE ANN MATHERS LITTLE
59 ETON GREEN CIR
SAN ANTONIO TX 78257

ROBERT RANDALL MATHERS JR
5000 SOL RD
BROWNSVILLE TX 78520

JEAN MARIE MATHERS KREUZ
10426 SH 149
LONGIVEW TX 75603

FRANK E MATHERS
600 RIVERSIDE
BROWNSVILLE TX 78520

NEAL J MATHERS
5213 SOMERSET
BROWNSVILLE TX 78520

WILLIAM B MATHERS
4975 LAKEWAY DR
BRWONSVILLE TX 78520

CHARLES D MATHERS
600 RIVERSIDE
BROWNSVILLE TX 78520

ROBERT MATHERS
1263 TURTLE CREEK DR
BROWNSVILLE TX 78520

JAMES EDWARD BAUER III
P O BOX 594
REFUGIO TX 78377

CYRUS CHRISTOPHER BAUER
807 N ALAMO
REFUGIO TX 78377

DEBORAH ANN BAUER
1008 POWER ST
REFUGIO TX 78377

CLEMENT JOSEPH BAUER
P O BOX 184
REFUGIO TX 78377

WILLIAM KARL BAUER
108 RIVER OAKS
LAKE JACKSON TX 77566

CLAIRE ELIZABETH BAUER LINSCOMB
P O BOX 273
REFUGIO TX 78377

KURT FOX BAUER
166 KELLEY RD
REFUGIO TX 78377

FOX BAUER MINERALS LLC
1008 POWER ST
REFUGIO TX 78377

ESTATE OF ALVA GENE ALLEN
4401 SUE CIR
CORPUS CHRISIT TX 78410

ANNA CLAIRE HEARD PARISEAU TRUST
5500 PRESTON RD
DALLAS TX 75205

DAN ALLEN HUGHES JR
745 E MULBERRY STE 100
SAN ANTONIO TX 78212

PHILIP HILTON HUGHES
P O BOX 4159
BEEVILLE TX 78104

MARY MCCURDY WELDER
801 N ADAMS
BEEVILLE TX 78102

JOSEPHINE WELDER MILLER
801 N ADAMS
BEEVILLE TX 78102

REBECCA MORISSETTE
P O BOX 941
GROVELAND FL 34736

LOUISE WELDER HALL
P O BOX D
BEEVILLE TX 78102

R J WELDER RANCH LTD
115 E TRAVIS STE 900
SAN ANTONIO TX 78205

R J WELDER RANCH LTD
P O BOX 1609
FREDERICKSBURG TX 78624

LAWRENCE S SEARCY
1 GLENDALOUGH CT
SAN ANTONIO TX 78209

CATHERINE SEARCY FINN
6 GLENCHESTER CT
DALLAS TX 75225

BAR 3L LLC
P O BOX 2917
PORT ARANSAS TX 78373

B H C H MINERALS LTD
P O BOX 1817
SAN ANTONIO TX 78296

WILLIAM CHRISTOPHER BUSH
P O BOX 1013
REFUGIO TX 78377

CATHERINE S FINN REVOCABLE TRUST
P O BOX 542645
DALLAS TX 75354

CATHERINE S FINN EXEMPT TRUST
P O BOX 565887
DALLAS TX 75356

CATHERINE S FINN NON EXEMPT TRUST
P O BOX 565887
DALLAS TX 75356

CLAIRE SEARCY GRASSEDONIO
1400 E OCEAN DR
CORPUS CHRISTI TX 78404

CLAIRE SEARCY GRASSEDONIO TRUST
1400 E OCEAN DR
CORPUS CHRISTI TX 78404

CLAIRE S GRASSEDONIO REVOCABLE TRUST
1400 E OCEAN DR
CORPUS CHRISTI TX 78404

HUNTER LAMBERT URRUTIA SEARCY
P O BOX 6771
CORPUS CHRISTI TX 78403

SEARCY FAMILY TRUST
P O BOX 6771
CORPUS CHRISTI TX 78403

LAWRENCE S SEARCY FAMILY TRUST
1 GLENDALOUGH CT
SAN ANTONIO TX 78209

AUBREY K SEARCY
1 GLENDALOUGH CT
SAN ANTONIO TX 78209

ELLEN RUSH
5111 BROADWAY
SAN ANTONIO TX 78209

TIERRA PADRE PARTNERS
P O BOX 1007
REFUGIO TX 78377

ROY GRASSEDONIO
1400 E OCEAN DR
CORPUS CHRISTI TX 78404

SHANNON M WOOD BUSH
P O BOX 1007
REFUGIO TX 78377

BRYAN WOOD SEARCY
3219 LEYTE ST
SAN ANTONIO TX 78217

TYSON DAVID SEARCY
P O BOX 2917
PORT ARANSAS TX 78373

PATRICK LAMBERT SEARCY II
P O BOX 6771
CORPUS CHRISTI TX 78466

PETER L J WOOD
P O BOX 1011
REFUGIO TX 78377

RICHARD L WOOD JR
P O BOX 1007
REFUGIO TX 78377

TOBIAS B WOOD
P O BOX 1011
REFUGIO TX 78377

LAMBERT RICHARD LAMBERT WOOD TRUST
615 N UPPER ROADWAY
CORPUS CHRISTI TX 78403

LAMBERT CATHERINE ELIZABETH SEARCY TRUST
615 N UPPER BROADWAY
CORPUS CHRISTI TX 78403

LAMBERT JAMES LAWRENCE WOOD TRUST
615 N UPPER BROADWAY
CORPUS CHRISTI TX 78403

JAMES LAWRENCE WOOD
P O BOX 1007
REFUGIO TX 78377

MARY JEAN FARLEY TRUST
P O BOX 900
CORPUS CHRISTI TX 78403

CATHERINE E SEARCY
P O BOX 565887
DALLAS TX 75356

RICHARD LAMBERT WOOD
P O BOX 1007
REFUGIO TX 78377

ROGER F WELDER
2406 LOWER MISSION VALLEY RD
VICTORIA TX 77905

LEO J WELDER JR
345 GRANT PL
CORPUS CHRISTI TX 78411

ELIZABETH WELDER
P O BOX 15153
AUSTIN TX 78715

BEVANS C WELDER
8118 MARSEILLE
CORPUS CHRISTI TX 78414

WILLIAM S WELDER
639 E AVE B
PORT ARANSAS TX 78373

LUCILLE WELDER BROWER REVOCABLE TRUST
3146 E 58TH PL
TULSA OK 74105

LEO J WELDER III
4357 CUNA DR
SANTA BARBARA CA 93110

KATHLEEN W MOLLOW
9 ELDREGE ST
NEWTON MA 02458

MADELINE SMITH WELDER
47 SALEM AVE
ASHVILLE NC 28804

WILLIAM CALLAN WELDER
1394 SOUTH FORK RD
MARSHALL NC 28753

ROGER F WELDER JR
503 CHAMPION ROW
VICTORIA TX 77904

PHILIP PORTILLA WELDER
403 CEDAR RIDGE DR
PFLUGERVILLE TX 78660

WILLIAM HUGH WELDER
2229 WARD PKWY
FORT WORTH TX 76110

W M MURPHY III
P O BOX 1307
VICTORIA TX 77902

MELITA MURPHY WORSHAM
205 PASADENA
VICTORIA TX 77904

MADELINE MURPHY TYNG
410 N VINE ST
VICTORIA TX 77901

LISA MURPHY BOWEN
205 E WILDWOOD
SAN ANTONIO TX 78212

LISA M BOWEN MINERAL ESTATE TRUST
14101 S GREEN HILLS LOOP
AUSTIN TX 78737

MELITA M WORSHAM MINERAL ESTATE TRUST
1900 BROADWAY STE 900
SAN ANTONIO TX 78215

WILLIAM M MURPHY III MINERAL ESTATE TRUST
725 E MULBERRY STE 400
SAN ANTONIO TX 78212

MADELINE TYNG MINERAL ESTATE TRUST
1101 HWY 35 SOUTH BYP
PORT LAVACA TX 77979

W D WELDER JR
8016 SH 111 E
YOAKUM TX 77995

CAROL J WELDER
8016 SH 111 E
YOAKUM TX 77995

KATIE WELDER STEWART
8016 SH 111 E
YOAKUM TX 77995

CARMELO LEO DANNA III
8016 SH 111 E
YOAKUM TX 77995

WILLIAM DAVIS DANNA
8016 SH 111 E
YOAKUM TX 77995

KRISTEN STEWART FRANK
8016 SH 111 E
YOAKUM TX 77995

KARA STEWART TRAIL
8016 SH 111 E
YOAKUM TX 77995

JENNIFER LAMSENS
2204 ASHLAND AVE
FT WORTH TX 76107

CHRISTY WELDER
240 E 82ND ST 7G
NEW YORK NY 10028

REBECCA WELDER MANLEY
392 CLINTON ST 4
BROOKLYN NY 11231

JAMES WELDER
107 SUSSEX DELL DR
VICTORIA TX 779045

DIANA WELDER RALPH
P O BOX 2592
ROCKPORT TX 78381

VICTORIA ANNE WELDER REV TRUST
8016 SH 111 E
YOAKUM TX 77995

VICTORIA ANNE WELDER REV TRUST
P O BOX 565887
DALLAS TX 75356

SCOTT DAVIS WELDER REVOCABLE TRUST
P O BOX 565887
DALLAS TX 75356

BRIAN EDWARD WELDER REVOCABLE TRUST
P O BOX 565887
DALLAS TX 75356

LEO J WELDER TRUST
P O BOX 565887
DALLAS TX 75356

WILLIAM SMITH WELDER TRUST
P O BOX 565887
DALLAS TX 75356

BEVANS CALLAN WELDER TRUST
P O BOX 565887
DALLAS TX 75356

ELIZABETH WOOD WELDER TRUST
P O BOX 565887
DALLAS TX 75356

ROGER FLEMING WELDER TRUST
P O BOX 565887
DALLAS TX 75356

LUCILE BROWER TRUST
P O BOX 565887
DALLAS TX 75356

CAROL J WELDER TRUST
P O BOX 565887
DALLAS TX 75356

WILLIAM DAVIS WELDER TRUST
P O BOX 565887
DALLAS TX 75356

SCOTT WELDER REVOCABLE TRUST
P O BOX 565887
DALLAS TX 75356

BRIAN WELDER REVOCABLE TRUST
P O BOX 565887
DALLAS TX 75356

VICTORIA ANNE WELDER TRUST
P O BOX 565887
DALLAS TX 75356

KATIE STEWART TRUST
P O BOX 565887
DALLAS TX 75356

MADELINE MURPHY TYNG DODSON TRUST
P O BOX 565887
DALLAS TX 75356

WILLIAM M MURPHY III TRUST
P O BOX 565887
DALLAS TX 75356

MELITA M ZAFEREO TRUST
P O BOX 565887
DALLAS TX 75356

LISA BOWEN TRUST
P O BOX 565887
DALLAS TX 75356

K R TRUST
P O BOX 2950
SAN ANTONIO TX 78299

KATHLEEN DRISCOLL ROCHE GRANTOR TRUST
P O BOX 13929
ARLINGTON TX 76094

KATHLEEN DRISCOLL ROCHE
P O BOX 1600
SAN ANTONIO TX 78296

CYNTHIA K ROCHE TRUST
P O BOX 1600
SAN ANTONIO TX 78296

KATHLEEN DRISCOLL ROCHE IRREVOCABLE TRUST
P O BOX 1600
SAN ANTONIO TX 78296

CYNTHIA K ROCHE GRANTOR TRUST
P O BOX 1600
SAN ANTONIO TX 78296

DIANE ROCHE
601 W PLEASANT ST
COALINGA CA 93210

CATHERINE CARR DAVIS
710 BUFFALO STE 211
CORPUS CHRISTI TX 78401

CARR RANCHES LTD
710 BUFFALO STE 211
CORPUS CHRISTI TX 78401

BRADLEY LEIGHTON MURPHY
512 W BRADLEY
REFUGIO TX 78377

LORI J MURPHY VETETO
3237 FOUNDERS DR
BRYAN TX 77807

JOHN MITCHELL MURPHY
P O BOX 864
REFUGIO TX 78377

MATTHEW MICHAEL MURPHY
6206 SHADOW MOUNTAIN DR
AUSTIN TX 78731

MEGAN MURPHY LAIBOVITZ
6206 SHADOW MOUNTAIN DR
AUSTIN TX 78731

MALAISE E MURPHY NORFLEET
5809 REPUBLIC OF TEXAS BLVD
AUSTIN TX 78735

RICHARD MICHAEL MURPHY
6206 SHADOW MOUNTAIN DR
AUSTIN TX 78731

THE BEVERLY DAVYDIUK FAMILY TRUST
3105 GREEN COUNTRY CT
BEDFORD TX 76021

JIMMY AND MILDRED EMERSON
5209 CONGRESSIONAL DR
COLLEGE STATION TX 77845

JOSEPH DUMENIL REVOCABLE TRUST
8657 WILLOW WIND DR
BOERNE TX 78015

LINDSEY DUMENIL
126 SURFRIDER ST
SAN ANTONIO TX 78242

JENNIFER REBECCA YOUNG
15134 SMARTY JONES DR
NOBLESVILLE IN 46060

CYNTHIA PAGE
27122 AUTUMN SPG
BOERNE TX 78006

JOHN MITCHELL MURPHY
701 W FANNIN ST
REFUGIO TX 78377

LORI VETETO
3525 BLACK OAK DR
CORPUS CHRISTI TX 78418

VICKI RUTH BONNER
P O BOX 879
CAMP WOOD TX 78833

CROW WESTERN LAND COMPANY
2925 BRIARPARK STE 1220
HOUSTON TX 77042

KATHERINE MATEJKA LIGGETT
981140 KAAMILO ST
AIEA HI 96701

NANCY SHEETZ
10738 ANITA DR
LORTON VA 22079

NANCY SHEETZ STONE
5212 HEMING AVE
SPRINGFIELD VA 22151

ROY ANTHONY SHEETZ
5307 DUVALL DR
WASHINGTON DC 20016

DELL ROLLINS
713 BROCK DR
CORPUS CHRISTI TX 78412

CLARA Y WILSON
6946 ASWAN DR
CORPUS CHRISTI TX 78412

JOHN R YARBROUGH
4608 FAIRMONT AVE
PASCAGOULA MS 39567

KIMBERLY MARIE FALL
923 E BLUEBONNET DR
SAN MARCOS TX 78666

TARA ANN HERREN
P O BOX 211
COST TX 78614

BRYAN WATSON
BEEVILLE CITY HALL
400 N WASHINGTON ST
BEEVILLE TX 78102

TEXAS DEPARTMENT OF STATE HEALTH SERVICES
HEALTH SERVICE REGION 11
601 W SESAME DR
HARLINGEN TX 78550

HON GEORGE MORRILL III
BEE COUNTY JUDGE
105 W CORPUS CHRISTI RM 305
BEEVILLE TX 78102

BURKE HOLLOW CORPORATION
6363 WOODWAY STE 630
HOUSTON TX 77057

ATTACHMENT H

Letter from the Railroad Commission of Texas

ATTACHMENT H
LETTER FROM THE RAILROAD COMMISSION OF TEXAS

Included on the following pages is a letter from the Railroad Commission of Texas (RRC) generated during the previous permit application of the Uranium Energy Corp (UEC) WDW-447 and WDW-448injection wells. The RRC letters dated January 6, 2015 assert the operation of the proposed non-commercial disposal wells for the injection of non-hazardous wastewaters into the Het Sand Injection Interval (lower Anahuac and upper Frio Formations) at a depth between 3,070 and 3,900 feet will not injure or endanger any known oil or gas reservoir.

UEC has submitted a copy of this permit renewal application to the RRC. A copy of the cover letter submitted to the RRC is included in this attachment.

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TERRA DYNAMICS INC

December 3, 2024 24-145

Mr. Ivan Salas
Technical Programs Manager
Injection-Storage Permits Unit
Technical Permitting
Railroad Commission of Texas
1701 N. Congress, 11th Floor, Room 140
PO Box 12967
Austin, Texas 78711-2967

Re: TCEQ Permit Renewal Application for WDW-447 and WDW-448 Uranium Energy Corporation, Bee County, Texas

Dear Mr. Salas:

Uranium Energy Corporation (UEC) is applying to the Texas Commission on Environmental Quality (TCEQ) for renewal of the permit for two proposed Class I injection wells at their Burke Hollow Project site southeast of Beeville, Texas. The permits will allow them to construct and conduct Class I underground injection under provisions of Chapters 26 and 27 of the Texas Water Code. The permits will authorize operation of two proposed Class I injection wells (WDW-447 and WDW-448) for disposal of non-hazardous wastewaters generated at the site. UEC is submitting information from the application and technical report to the Railroad Commission for review as required in the current regulations. UEC has demonstrated that *operating/drilling the disposal wells and injecting industrial waste into the subsurface stratum specified in the technical report will not endanger any known oil or gas resources.*

The wells will be located on an 11,359-acre area site in Bee County, Texas. The main entrance to the Burke Hollow Project is located approximately 38 miles north of Corpus Christi or three miles south of Woodsboro on US Highway 77. The two proposed wells will be located an additional 12 miles west of the Hwy 77 entrance in the M. De Los Santos Survey, Abstract A-64.The geographical coordinates of the WDW-447 injection well are:

Latitude 28 deg 16 min 55 sec North
Longitude 97 deg 31 min 02 sec West.

The geographical coordinates of the WDW-448 injection well are:

Latitude 28 deg 16 min 40 sec North
Longitude 97 deg 30 min 02 sec West.

UEC is currently authorized to dispose of non-hazardous wastewater via the two injection wells into the Het Sand Formation (lower Anahuac and upper Frio Formations). The Injection Zone is present from approximately 2,940 feet to 3,900 feet below ground level (BGL) at the well locations. The Injection Interval for WDW-4489 is within the Het Sand Formation and is present from approximately 3,070 to 3,900 BGL. The Injection Interval for WDW-448 is within the Het Sand Formation and is present from 3,155 to 3,900 feet BGL. Within the UECE area of review, the het Sand Formation is not currently, and has never been historically, productive of hydrocarbons or natural gas.

In order to assist in your review process, I have enclosed the TCEQ UIC Class I Injection Well Permit Renewal Application and associated technical report for your review. The geology and hydrogeology section is included in Section V. Cross sections, structure and isopach maps, tables, and figures are included with the discussion of local and regional geology. Section VIII discusses the Area of Review, research protocol, and provides information regarding the non-freshwater artificial penetrations in the Area of Review. Tables listing the non-freshwater artificial penetrations and the research protocol are included with the discussion of the Area of Review. Copies of the previous Railroad Commission letters are included in Attachment H.

We look forward to working with you toward issuance of a letter confirming that operating the WDW-447 and WDW-448 disposal wells and injecting industrial waste into the subsurface stratum specified in the technical report will not endanger any known oil or gas resources.

Please email at swilliams@terradyn.com or call at (512) 795-8183 if you should have any questions about this matter.

Stephanie K. Williams, PG
Senior Geologist

Attachment

cc: Mr. Craig Wall
Uranium Energy Corporation
500 North Shoreline Blvd., Suite 800 N
Corpus Christi, TX 78401

CHRISTI CRADDICK, CHAIRMAN
DAVID PORTER, COMMISSIONER
RYAN SITTON, COMMISSIONER

LORI WROTENBERY
DIRECTOR, OIL AND GAS DIVISION

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

January 6, 2015

URANIUM ENERGY CORPORATION
500 N SHORLINE BLVD
SUITE 800N
CORPUS CHRISTI TX 78401

RE: Class I Injection Well Permit Renewal Application
Uranium Energy Corporation- Burke Hollow Facility; WDW-XXX
Corpus Christi, Texas, Bee County
Project No. 13-164

Railroad Commission staff has reviewed your application submitted by Terra Dynamics, Inc. for the referenced Class I injection wells. We received the application on August 4, 2014. It is our understanding that the application includes two new injection wells at the site.

We reviewed the portion of the application relating to the possible injury or endangerment of any known oil and gas reservoirs. Specifically, our review entailed a study of the aspects of the application relating to the injection operation, geology of the area, and the location and well records of the artificial penetrations within the 2.5 mile radial area of review. We also used the Railroad Commission's computerized mapping system and related information in our review.

There is a shut in Class II injection well (API 42-025-32499) which also injects into the proposed interval within the 2.5 mile radial area of review. The permitted injection interval of this Class II well is 2,050 to 3,850 feet TVD, and the perforated interval of this well is 3,200 to 3,210 feet TVD. The RRC GIS indicates that the coordinates of this well are 28.2762259, -97.5052002 (NAD 83), which would be approximately 1,600 feet southwest of the proposed Well 2. The provided waste plume extension indicates each proposed Uranium Energy Corporation well will have a 30-year waste plume radius of 1,319 feet. Assuming the same reservoir thickness and effective porosity identified in the Class I application is present below the Class II well, then by using the applicant's formula for waste plume extension, the Class II well would have a 30-year waste plume radius of 536 feet. The waste plume radii of the Class II well and Well 2 may intersect over time.

None of the existing wells in the area of review are productive of oil and gas within the injection zone of your wells. Based upon our review, the Commission concludes that operation of these wells for the disposal of nonhazardous waste into the Het Sand, Lower Anahuac, and Upper Frio Formations at an injection interval of 3,070 to 3,900 feet TVD within the allowed zone of 2,940 to 3,900 feet TVD for WDW-XXX will not injure or endanger any known oil or gas reservoir; however it may also cause commingling of waste from Class I and Class II wells.

DH/jt

Sincerely,

David Hill

David Hill, PE, PG, Manager
Injection-Storage Permits and Support
Technical Permitting

CC: LORRIE COUNCIL, PG
TCEQ- UIC PERMITS, MC-233
PO BOX 13087
AUSTIN TX 78711-3087

TERRA DYNAMICS INC
4616 WEST HOWARD LANE STE 9-980
AUSTIN TX 78728

ATTACHMENT I

Financial Assurance

ATTACHMENT I
FINANCIAL ASSURANCE, LIABILITY, AND FINANCIAL CAPABILITY

Financial assurance documents for closure of the proposed injection wells will be provided prior to commencement of drilling activities. UEC will supply documentation guaranteeing performance of plugging and abandonment consistent with the requirements of 30 TAC §331.142. The documents will demonstrate financial responsibility for closure as specified in 30 TAC §§331.142-144 and 30 TAC §37.7021.

UEC has prepared written plugging cost estimates, in current dollars, for the cost of plugging the proposed injection wells in accordance with the plugging and abandonment planned as specified in the Technical Report of this application (same cost of each well). UEC will revise, update and maintain the plugging and abandonment cost estimates in accordance with 30 TAC §331.143. The cost estimate is $264,061 (in 2024 dollars), for closure, plugging, and abandonment of each of the UEC proposed injection wells.

UEC has sufficient financial resources to operate the facility in a safe manner and in compliance with the permit and all applicable rules, and has sufficient financial resources to obtain financing for closure. UEC will acquire and maintain financial assurance for the plugging and abandonment of the proposed injection wells in accordance with 30 TAC §37.7021(c), *at* least 60 days *prior* to commencement of drilling operations.

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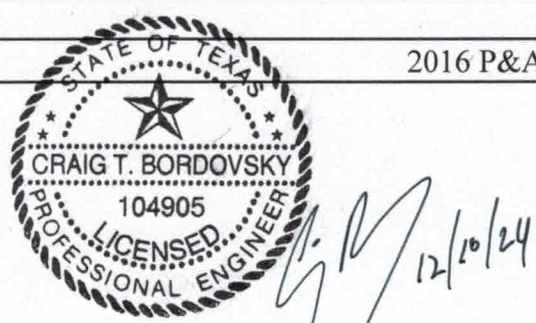
WDW-447 Plugging Cost Estimate
May 15, 2014

Specific Well Information:	
Average casing inside diameter to packer (inches): 7 5/8" carbon steel	6.969
Tubing inside diameter (inches)	4
Measured depth of well (feet)	3,900
Depth of tubing (feet)	2,920
Number of field days for wellsite supervision and expenses	7
Number of field days for rig and equipment	5
Closure cement yeild	1.32
Cost Calculations	
Cosultant: Preclosure and post-closure work at $12,500	$12,500
Consultant: Wellsite supervision and expenses at 1,100/day	$7,700
Consultant Total	**$20,200**
Testing: MIT, pressure fall-off test fixed at $10,000	$10,000
Testing: Frac tanks and fluid for testing	$15,000
Testing: Nonhaz brine buffer fluid pumping and transport time at $2,500 + $8/bbl	$0
Testing: Radioactive Tracer Survey logging	$6,500
Testing: Casing inspection log ($2.00/ft well depth if required)	$7,800
Testing: Cement Bond log ($1.25/ft well depth if required)	$0
Workover Rig: Mob/demob, permits at $5,000 each way	$10,000
Workover Rig: Rig operations with fueld at $7,500/12 hr day	$37,500
Packer Service: Fixed at $1,250/day x 2 days service	$2,500
Rental Equipment: Workstring, BOP, mis. Rental toos at $1,300/day	$5,200
Rental Equipment: Transportation: fixed at 2 trips at $500/trip	$1,000
Rental Equipment: Workstring inspection at $0.75/ft well depth	$2,925
Cement: 783 sacks at $30/sack pumped	$23,478
Cement: Squeeze retainer and service (fixed at $5,000 if required)	$5,000
Cement: Fresh water for spacers, cement and transport time at $5/bbl	$995
Mud: $15/bbl (if not filling entire wellbore with cement)	$0
Welding: Fixed at $600	$600
Misc. Daily Cost: Porta-can, dumpster, forklift/crane, transfer pumps, trailer etc. $1000/day	$5,000
Hazardous Well: Additional cost for HazWop training, decon, disp. fixed at $10,000	$0
Field Operations Subtotal	**$133,498**
Consultant Markup: Fixed at 15% of Field Operations Subtotal	$20,025
Field & Consultant Operations Subtotal	**$173,723**
Contingency: Fixed at 20 percent of Field and Consultant Operations Total	$34,745
Plugging Cost Estimate	**$208,467**
2015 Inflation Factor (1.0)	$2,085
2016 P&A Cost Estimate	$210,552



WDW-447 Plugging Cost Estimate
May 15, 2014

2016 Inflation Factor (1.3)	$2,737
2017 P&A Cost Estimate	$213,289
2017 Inflation Factor (1.8)	$3,839
2018 P&A Cost Estimate	$217,128
2018 Inflatoin Factor (2.3)	$4,994
2019 P&A Cost Estimate	$222,122
2019 Inflation Factor (1.7)	$3,776
2020 P&A Cost Estimate	$225,898
2020 Inflaction Factor (1.2)	$2,711
2021 P&A Cost Estimate	$228,609
2021 Inflaction Factor (4.2)	$9,602
2022 P&A Cost Estimate	$238,211
2022 Inflaction Factor (7.0)	$16,675
2023 P&A Cost Estimate	$254,885
2023 Inflaction Factor (3.6)	$9,176
2024 P&A Cost Estimate	**$264,061**

12/10/24

WDW-448 Plugging Cost Estimate
May 15, 2014

Specific Well Information:	
Average casing inside diameter to packer (inches): 7 5/8" carbon steel	6.969
Tubing inside diameter (inches)	4
Measured depth of well (feet)	3,900
Depth of tubing (feet)	2,920
Number of field days for wellsite supervision and expenses	7
Number of field days for rig and equipment	5
Closure cement yeild	1.32
Cost Calculations	
Cosultant: Preclosure and post-closure work at $12,500	$12,500
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Field Operations Subtotal	**$133,498**
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Field & Consultant Operations Subtotal	**$173,723**
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2015 Inflation Factor (1.0)	$2,085
2016 P&A Cost Estimate	$210,552

12/10/24

WDW-448 Plugging Cost Estimate
May 15, 2014

2016 Inflation Factor (1.3)	$2,737
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2017 Inflation Factor (1.8)	$3,839
2018 P&A Cost Estimate	$217,128
2018 Inflatoin Factor (2.3)	$4,994
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2021 Inflaction Factor (4.2)	$9,602
2022 P&A Cost Estimate	$238,211
2022 Inflaction Factor (7.0)	$16,675
2023 P&A Cost Estimate	$254,885
2023 Inflaction Factor (3.6)	$9,176
2024 P&A Cost Estimate	**$264,061**

12/10/24

ATTACHMENT J

Radioactive Waste Statement

ATTACHMENT J RADIOACTIVE WASTE STATEMENT

Uranium Energy Corp (UEC) does not generate radioactive materials or radioactive wastes at the Burke Hollow Project facility. Therefore, any information regarding the need for an appropriate radioactive waste license does not apply to the operation and construction of the WDW-447 (proposed) and WDW-448 (proposed) Class I injection wells located at the UEC Burke Hollow facility in Bee County, Texas.

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APPENDIX A

Well Logs

Tabulation of Well Logs in Appendix A

Included in Original Set and TCEQ copies of the
Permit Applications for WDW-447 and WDW-448

Included Digitally in all Other Sets

Log Ref.	Operator	Lease and Well	Deepest Horizon Penetrated
15	Petrus Operating	Welder #1	Injection Interval
35	Humble O&R Co.	L.D. Thomson #1-B	Injection Interval
48	Exxon Corp.	L.D. Thomson #13-B	Injection Interval
59	Humble O&R Co.	L.T. Barrow #21-B	Injection Interval
64	Humble O&R Co.	L.D. Thomson #5-B	Injection Interval
72	Humble O&R Co.	L.T. Barrow #11-B	Injection Interval
75	Mueller Engineering Corp.	L.T. Barrow #31-B	Injection Interval
76	C & E Operating Inc.	Thomson-Barrow Corp. #3-C	Injection Interval
91	C & E Operating Inc.	Thomson-Barrow Corp. #16-C	Injection Interval
94	Humble O&R Co.	L.T. Barrow #24-B	Injection Interval
111	Humble O&R Co.	L.T. Barrow #6T & 6C	Injection Interval

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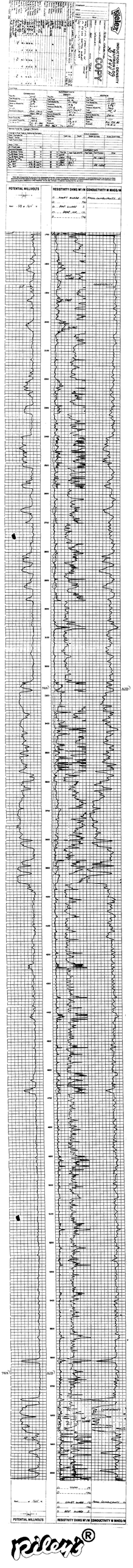

COMPANY
WELL
FIELD
COUNTY
STATE
LOCATION
Other Services
SEC
TWP
RGE
Permanent Datum
Elev.: K.B.
D.F.
G.L.
Log Measured From
Drilling Measured From
Date
Run No.
Depth-Driller
Depth-Logger
Bottom Logged Interval
Top Logged Interval
Type Fluid in Hole
Salinity, PPM Cl
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source of Rmf
Source of Rmc
Rm @ BHT
Time Since Circ.
Max. Rec. Temp.
Equip. No.
Location
Recorded By
Witnessed By
RUN NO.
BIT NO.
TYPE
SIZE
FROM
TO
CASING
WEIGHT
BORE HOLE RECORD
CASING RECORD
TYPE JOINT
Rm @ MEAS. TEMP.
Rmf @ MEAS. TEMP.
Rmc @ MEAS. TEMP.
Rm @ BHT
Rmf @ BHT
Rmc @ BHT
Rm @ 75°F
Rmf @ 75°F
Rmc @ 75°F
SOURCE OF SAMPLE
RM @ MEAS. TEMP.
RM @ BHT
RM @ 75°F
RECORDED BY
WITNESSED BY
Schlumberger
COPY
POTENTIAL MILLIVOLTS
RESISTIVITY OHMS M²/M CONDUCTIVITY M MHOS/M
A. SHORT NORMAL 16"
B.
C. LONG NORMAL 64"
D. LONG LATERAL
CONDUCTIVITY
SP
SHALE
SAND
SHALE
SAND
SHALE
SAND

MAP ID 35

Halliburton
OIL WELL CEMENTING CO

COMPOSITE

ELECTRIC WELL LOG

COMPANY HUMBLE OIL & REFINING
COMPANY FILE
WELL LAURA D. THOMSON #B-1
FIELD MEDIO CREEK
County BEE State TEXAS

COMPANY HUMBLE OIL & REFINING
COMPANY FILE
WELL LAURA D. THOMSON #B-1
FIELD MEDIO CREEK
COUNTY BEE STATE TEXAS
SEC. TWP. RGE
SURVEY

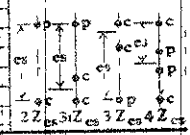
Location
Elevation D.F. K.B. Grd.

X1058C

Log Measured From 1' above R.T. Elevation
Drilling Measured From 1' above R.T. Elevation
Permanent Datum Grd Level 12.70' below K.B. Elevation

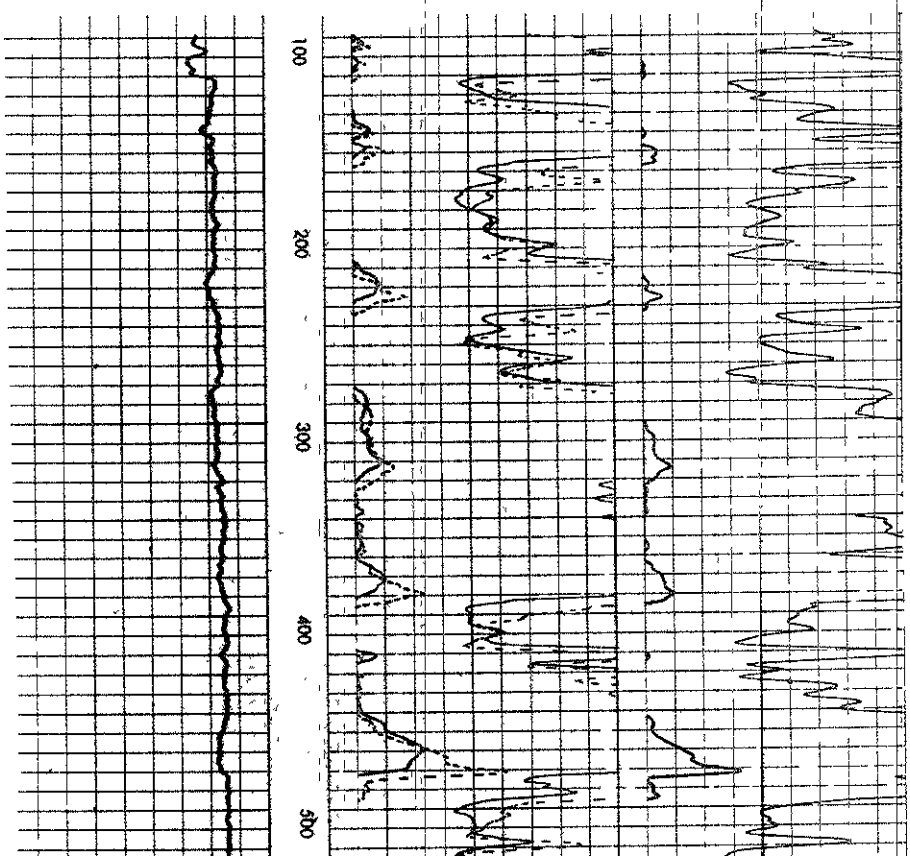
Run No.	ONE	TWO	THREE	FOUR
Date	2-9-57	2-12-57	2-21-57	2-25-57
Footage Logged	124	1883	2110	93
Total Depth, El. Log	1340	3223	5333	5426
Total Depth, Driller	1342	3225	5400	5430
Total Depth, Reached	1341	3224	5334	5427
Csg. Shoe, El. Log	-	1328	-	5298
Csg. Shoe, Driller	-	1326	-	5299
Csg. Size	12 1/4	7 7/8	7 7/8	4 3/4
Bit Size	9 5/8	7 7/8	7 7/8	4 3/4
Mud Kind	NATURAL	WATER BASE	WATER BASE	Same
Treatment		CAUSTIC SODA	MILBAR	Same
		QUEBRACHO, OILFOS		
Weight	9.7	10.2	10.8	10.3
Viscosity	38	38	50	48
ph	- @ F	8.5 @ - °F	8.5 @ - °F	8.5 @ - F
Loss cc/30 min	- @ F	11.5 @ - F	6.5 @ - F	6.5 @ - F
Res Ohms m²/m	6.2 @ 10 F	2.0 @ 88 F	1.2 @ 90 F	1.2 @ 90 F
Mud Res @ M.H.T.	5.2 @ 105 F	1.4 @ 126 F	.75 @ 148 F	.74 @ 150 F
Max. Temp	105 F	1.6 F	[illegible] F	150 F
Source Mud Sample	PIT	PIT	[illegible]	PIT

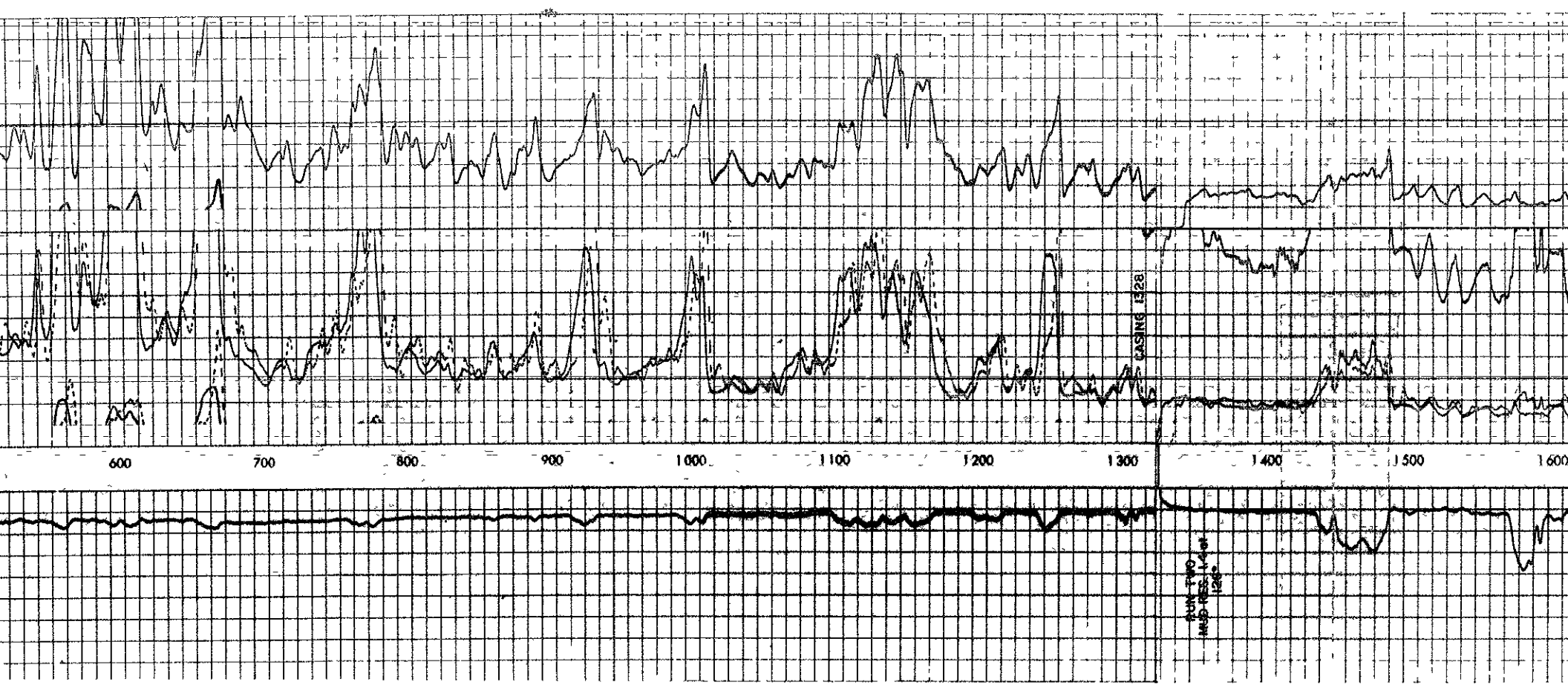
Electrode Spacings					
2 Z	18" cs	18" cs	18" cs	18" cs	cs
31Z	9' 16'	9' 16'	9' 16'	9' 16'	
Tool	6046	6046	6040	6040	
4 Z					
Recorded by	Mr Riggle	Mr Riggle	Mr Webb	Mr Riggle	
Witnessed by	Mr Rushing	Mr Rushing	Mr Prickett	Mr Rushing	



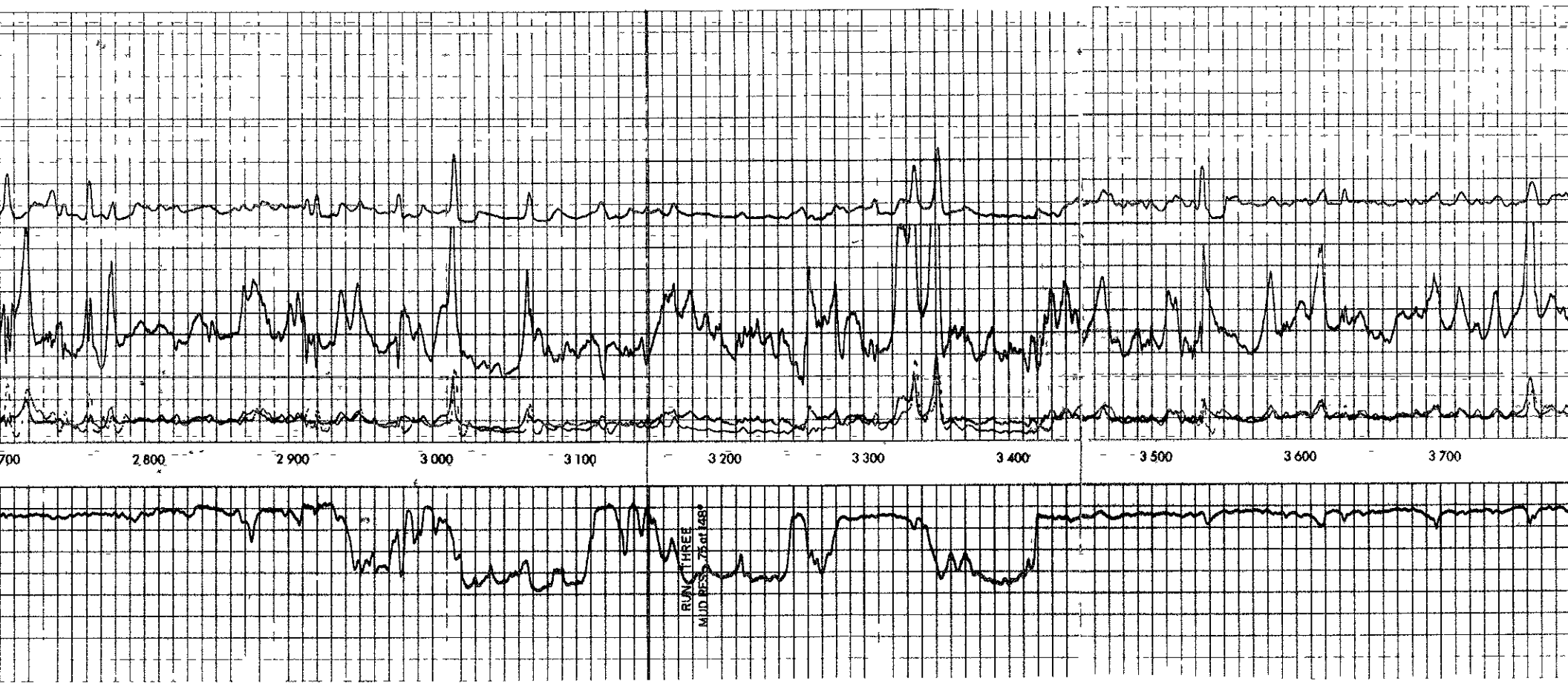
REMARKS — NOT AVAILABLE THIS LOG MADE WITH FM EQUIPMENT

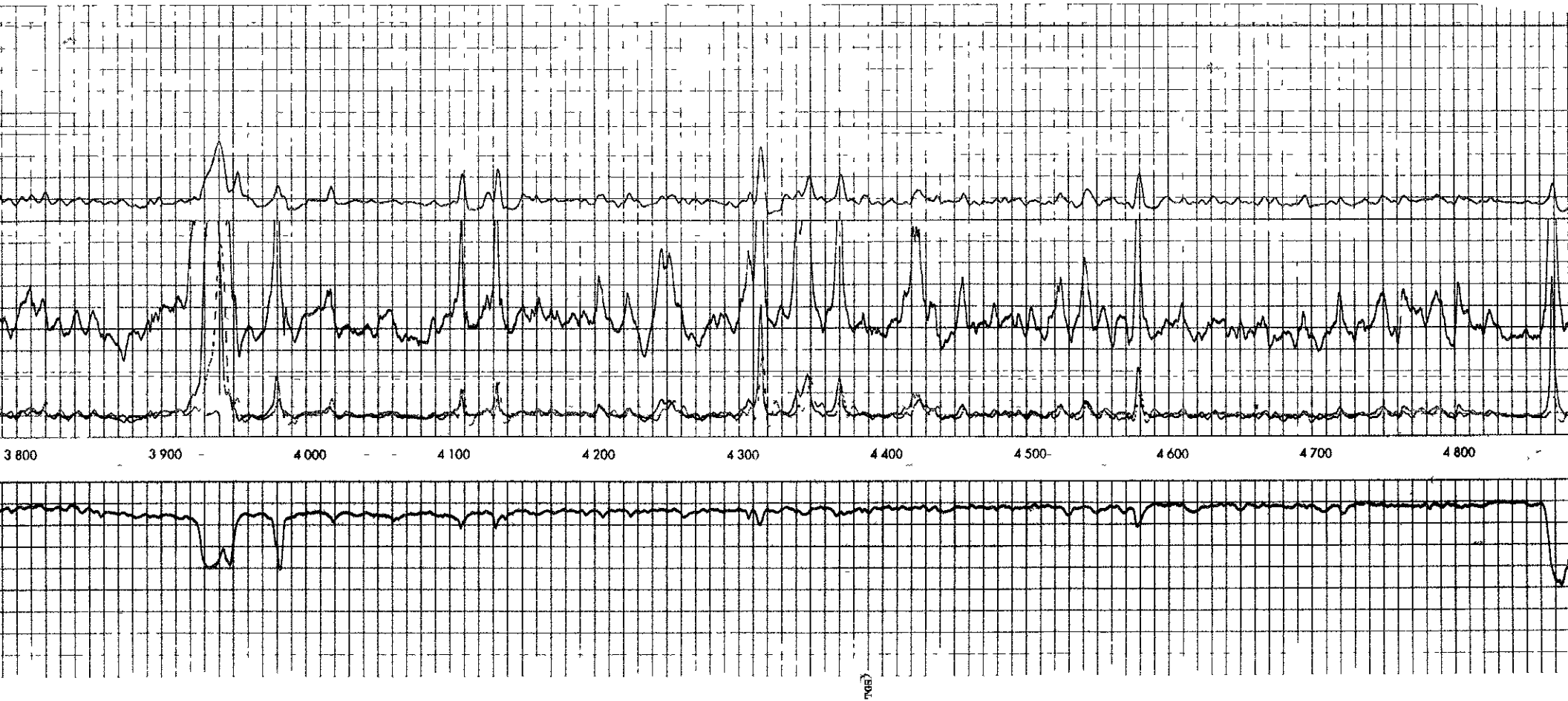
POTENTIAL MILLIVOLTS	RESISTIVITY OHMS M²/M	RESISTIVITY OHMS M²/M
— → 20 ← +	0 2Z18" 10	0 31Z16' 10
	0 100	0 100
	0 31Z9' 10	
	0 100	
	0 AMP 2Z18" 2	




600
700
800
900
1000
1100
1200
1300
1400
1500
1600
CASING 1328
RUN TWO
MUD RES 1.4ΩM
126°

1 700
1 800
1 900
2 000
2 100
2 200
2 300
2 400
2 500
2 600


700
2 800
2 900
3 000
3 100
3 200
3 300
3 400
3 500
3 600
3 700
RUN THREE
MUD PRESS 75 at 148°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4 000
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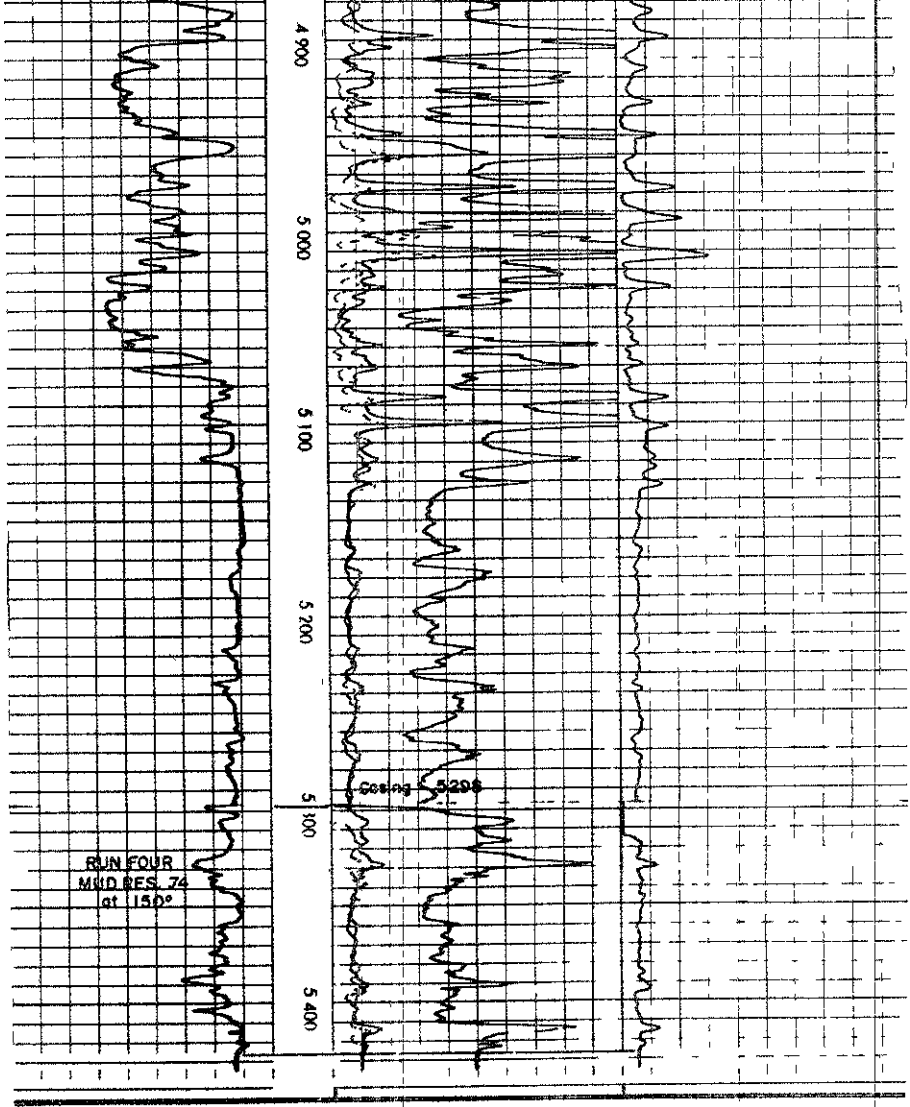
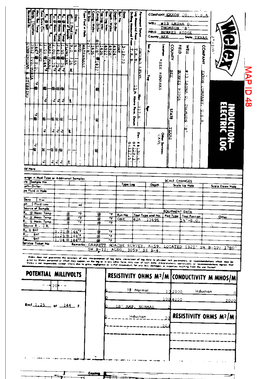
4 500
4 600
4 700
4 800



HUMBLE OIL & REFINING COMPANY
LAURA D THOMSON #B 1
MEDIO CREEK FIELD
BEE COUNTY, TEXAS

T D LOGGED 5426
T D DRILLER 5430

Rileys®


Dresser Atlas
DIGITAL
INDUCTION-ELECTRIC LOG
MAP ID 48
Company
Well
Field
County
State
Location
Permanent Datum
Log Measured From
Drilling Measured From
Elevation
Date
Run No.
Depth-Driller
Depth-Logger
Bottom Log Interval
Top Log Interval
Casing-Driller
Casing-Logger
Bit Size
Type Fluid in Hole
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source of Rmf
Source of Rmc
Rm @ BHT
Time Since Circ.
Max. Rec. Temp.
Equip. Location
Recorded By
Witnessed By
RUN
BOREHOLE RECORD
CASING RECORD
Run
Bit
From
To
Size
Wgt.
Grade
From
To
Size
Wgt.
Grade
From
To
Type Fluid in Hole
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source of Rmf
Source of Rmc
Rm @ BHT
Time Since Circ.
Max. Rec. Temp.
Equip. Location
Recorded By
Witnessed By
TOOL
Type
Serial No.
Diameter
Standoff
Centralizer
Type
Size
Weight
Grade
Thread
Top
Bottom
Length
Weight

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VALERO PLAZA 883-2551
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CORPUS CHRISTI TEXAS

X10626

WELEX
A Halliburton Company
INDUCTION-ELECTRICAL LOG

COMPANY	HUMBLE OIL & REFINING COMPANY
WELL	LUCAS CANALES #1
FIELD	LUCAS CANALES (FILL)
COUNTY	KLEBERG
STATE	TEXAS
LOCATION	1980' FSL & 1980' FEL
SURVEY	
SECTION	
BLOCK	
ELEVATION	K.B. 14' D.F. G.L.
PERMANENT DATUM	GROUND LEVEL
LOG MEASURED FROM	K.B. 14' ABOVE PERM. DATUM
DRILLING MEASURED FROM	K.B.
DATE	10-6-61
RUN NO.	ONE
DEPTH-DRILLER	3500
DEPTH-LOGGER	3500
BTM. LOG INTERVAL	3500
TOP LOG INTERVAL	SURFACE
CASING-DRILLER	8 5/8" @ 1000'
CASING-LOGGER	1000
BIT SIZE	7 7/8"
TYPE FLUID IN HOLE	GEL-CHEM
DENS. VISC.	10.0 50
PH FLUID LOSS	10.5 6.4
SOURCE OF SAMPLE	MUD PIT
RM @ MEAS. TEMP.	.75 @ 80°
RMF @ MEAS. TEMP.	.60 @ 80°
RM @ BHT	.40 @ 120°
TIME SINCE CIRC.	12 HRS.
MAX. REC. TEMP.	120°
EQUIP. LOCATION	1-1
RECORDED BY	R. MOSS
WITNESSED BY	MR. MOSS

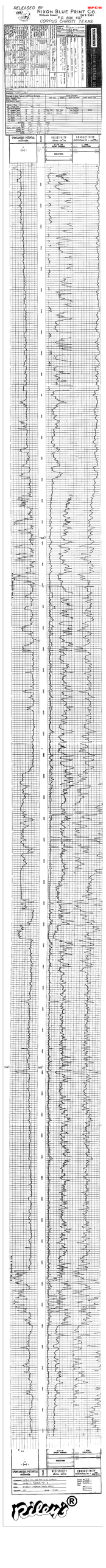
RUN NO. ONE

BOREHOLE RECORD				CASING RECORD			
BIT NO.	SIZE	FROM	TO	SIZE	WGT.	FROM	TO
1	7 7/8"	1000'	3500'	8 5/8"	24#	SURFACE	1000'

TYPE	SERIAL NO.	SIZE	MAKE	DEPTH
INDUCTION-ELECTRICAL LOG	1	7 7/8"	WELEX	3500'

Run No.	Date	Depth-Driller	Depth-Logger	Bottom Log Interval	Top Log Interval	Type Log	Scale Up Hr.
ONE	10-6-61	3500'	3500'	3500'	SURFACE	IE	

Run No.	Bit No.	From	To	Hrs. Cored	Rec.	% Rec.	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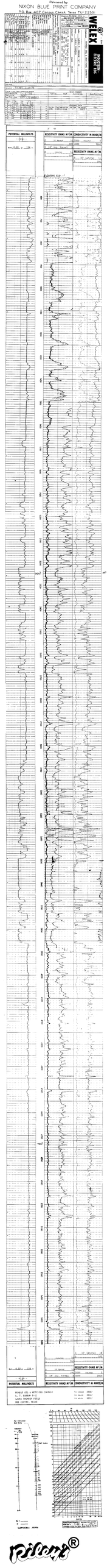
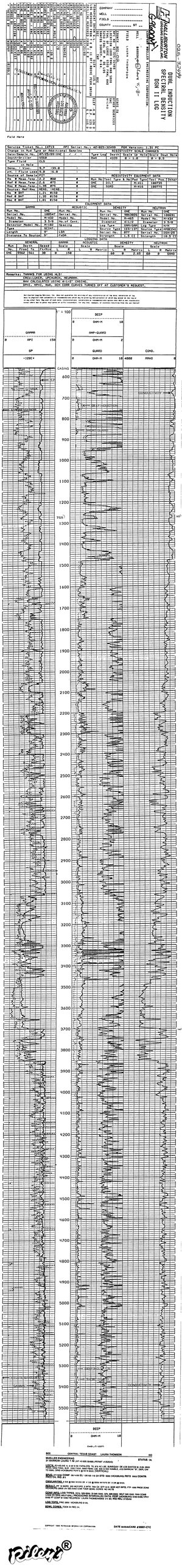
Nixon Blue Print Co.
CORPUS CHRISTI TEXAS
MAP ID 64
SPONTANEOUS POTENTIAL
millivolts
RESISTIVITY
ohms m²/m
CONDUCTIVITY
millimhos/m = 100/ohm
INDUCTION
SPONTANEOUS POTENTIAL
millivolts
RESISTIVITY
ohms m²/m
CONDUCTIVITY
millimhos/m = 100/ohm
INDUCTION
Nixon®

Fabricated by
NIXON BLUE PRINT COMPANY
P.O. Box 407 Corpus Christi, Texas 78403

WELEX
A HALLIBURTON COMPANY




COMPANY
WELL
FIELD
COUNTY
STATE
DUAL INDUCTION
SPECTRAL DENSITY
DSN II LOG
HALLIBURTON
Gearhart
DCCF
GAMMA
SP
-120E+
0
GAMMA RAY
GAMMA RAY (GAPI)
SPHI
SPHI (PU)
RHOB
RHOB (G/C3)
DRHO
DRHO (G/C3)
CALI
CALIPER (IN)
CASING
7625
DEPTH (FEET)
DEPTH (M)
DCCF
0
GAMM-H
150
GAMM-CLUGO
GAMM-HUC
GUARD
GAMM-H
SP
GAMM-H
CONO-
PENO
4000
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
DCCF
0
GAMM-H
150

Fold Here

| | | |

WESTERN ATLAS
DUAL INDUCTION FOCUSED LOG
COMPENSATED NEUTRON
LITHO-DENSITY LOG

FIELD PRINT

API NO.	
LOCATION	
FIELD	
COUNTY	
STATE	
OTHER SERVICES	
PERMANENT DATUM	
ELEVATION	
LOG MEASURED FROM	
DRILLING MEASURED FROM	

Baker Atlas

DUAL INDUCTION FOCUSED LOG
COMPENSATED DENSITY LOG
GAMMA RAY LOG

Well No.	241 3369
Co.	CABOT OIL & GAS CORPORATION
Field	WILDCAT
County	BEDFORD
State	PENNSYLVANIA
Other Services	SGR, CSNG
Sec.	36
Twp.	1N
Rge.	1E
Permanent Datum	GROUND LEVEL
Elev.	1016
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING

Run No.	ONE			
Date	12-JAN-99			
Depth Driller	8074.000			
Depth Logger	8074.000			
Bottom Logged Interval	8074.000			
Top Logged Interval	1518.000			
Type Fluid in Hole	WATER BASED MUD			
Salinity, PPM Cl	1000			
Density, LB/G	9.10			
Viscosity, S	40.00			
Fluid Loss, C3	6.00			
Source of Sample	CIRC			
Rm @ Meas. Temp.	1.900 @ 70.0			
Rmf @ Meas. Temp.	1.400 @ 70.0			
Rmc @ Meas. Temp.	2.500 @ 70.0			
Source of Rmf/Rmc	CALC			
Rm @ BHT	1.100 @ 150.0			
Time Since Circulation	12.0			
Max. Rec. Temp.	150.0			
Equipment No.	1013			
Location	WILLIAMSBURG, PA			
Recorded By	T. WHITE			
Witnessed By	MR. GARDNER			

Run No.	Bit Size	Casing Size	Casing Weight	Casing Depth	Tubing Size	Tubing Weight
ONE	8.750	7.000	23.00	8074.000		

Run No.	Tool Type	Tool No.	Density	Neutron	Resistivity	Other
ONE	DUAL IND	1013				
	COMPENSATED DENSITY	1013				
	GAMMA RAY	1013				

Run No.	Logged Interval	Scale	Max. Rec. Temp.	Equipment No.	Location	Recorded By
ONE	8074.000 TO 1518.000	1 IN/100 FT	150.0	1013	WILLIAMSBURG, PA	T. WHITE

Remarks	
RUN 1 TOOL STRING:	
DENSITY POROSITY WAS LOGGED ON A MATRIX DENSITY OF 2.65 GM/CC.	
NEUTRON POROSITY WAS LOGGED ON A SANDSTONE MATRIX.	
BVOL IS EQUAL TO TOTAL BOREHOLE VOLUME	
CVOL IS EQUAL TO TOTAL BOREHOLE VOLUME MINUS 4-1/2 INCH CASING.	
THERE IS A SCALE CHANGE IN RMOC AT 2000 FEET.	
THE SCALE CHANGES FROM 0 TO 50 Ω-M.	
BAKER ATLAS AND THE CREW OF RL-4004 APPRECIATE YOUR BUSINESS.	
BAKER ATLAS CREW: M. MAY, M. GARDNER, C. BRAUNOHLER.	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

EQUIPMENT DATA					
Run	Top	Tool	Series No.	Serial No.	Position
		DIFL	DIS 66	10722	SUB
		GAMMA RAY	DIS 66	10722	SUB
		COMPENSATED DENSITY	DIS 66	10722	SUB STABILIZERS
		SURFACE	7227 DIS	10722	NO SPACERS
		SURFACE	7227 DIS	10722	CABLE HEAD ASY

MAIN LOG 1"/100FT SCALE

PARAMETER AND FILTER SUMMARY REPORT

FILE: CHESTERVILLE 3369\3369DUA.DFS
TOP DEPTH: 1518.000 FT BOTTOM DEPTH: 8074.000 FT

SYMETRIC FILTER

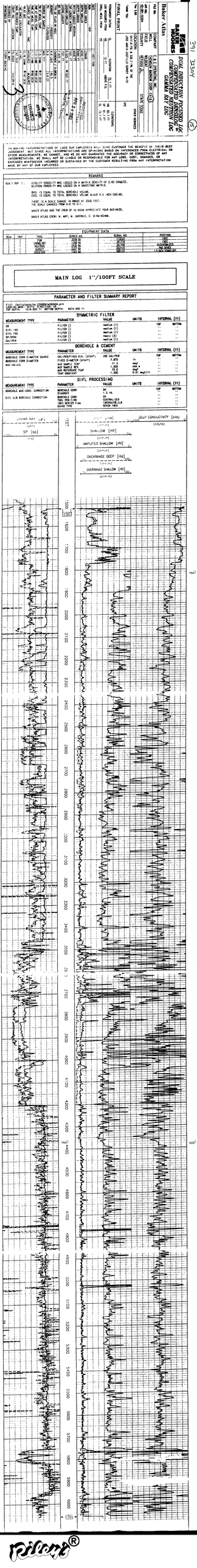
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	INTERVAL (ft) BOTTOM
DI	FILTER (I)	medium (I)		...	...
DIFL IMD	FILTER (I)	medium (I)		...	...
DIFL FOC	FILTER (I)	heavy (I)		...	...
SP-SPSN	FILTER (I)	medium (I)		...	...
GAMMA	FILTER (I)	heavy (I)		...	...

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	INTERVAL (ft) BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (CSNG)	USE CALIPER		...	...
BOREHOLE CORR DIAMETER	FIXED DIAMETER (CSNG)	7.875	in	...	...
MUD RM-MUD	MUD SAMPLE TYPE	FLOW		...	...
	MUD SAMPLE RMF	1.400	ohm	...	...
	MUD SAMPLE RMF TEMP.	70.0	degF	...	...
	TEMP GRADIENT	.000	0.01 degF/ft	...	...

DIFL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	INTERVAL (ft) BOTTOM
BOREHOLE MUD CONDUCTIVITY CORRECTION	BOREHOLE CORR	ON		...	...
	STANDOFF	1.5 IN.		...	...
DIFL SLB BOREHOLE CORRECTION	MUD CONDUCTIVITY CORR	ON		...	...
	TOOL MODEL NUMBER	CENTRALIZED		...	...
	1601 SERIES FLAG	1600SA/SB,LB		...	...
	BOARD TYPE	SEVEN INCH		...	...



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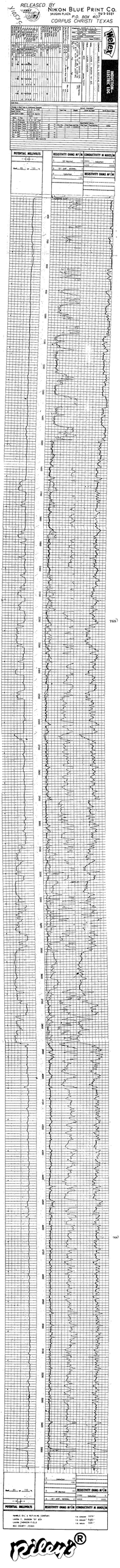
NIXON PLAZA P.O. BOX 4128
CORPUS CHRISTI TEXAS



WELEX
FILE
DIRECTIONAL DOG

Company: HOWELL OIL & GAS
Well: LEWIS "CONOCO" No. 1
Field: LEWIS "CONOCO"
County: BIG SPRINGS
State: TEXAS

Other Services: SONIC

Permanent Datum: GROUND LEVEL
Elevation: 2500 ft
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Date: 10-10-64
Run No.: ONE
Depth-Driller: 10,000 ft
Depth-Logger: 10,000 ft
Bottom Logged Interval: 10,000 ft
Top Logged Interval: SURFACE
Type Fluid in Hole: CHEMICAL
Salinity, PPM Cl: 1,000
Density: 9.2 lb/gal
Level: FULL
Max. Rec. Temp. Deg. F: 180°
Operating Rig Time: 24 HRS
Recorded By: J. SMITH
Witnessed By: MR. HOWELL

Run No. ONE

Borehole Record: 12 1/4" @ 1,000' — 8 5/8" @ 1,000'

Run No.	Bit From	Bit To	Size	Type Bit
ONE	SURFACE	10,000	7 7/8"	ROCK

Type Log	Depth	Type Fluid in Hole	Density Lb/Gal	Viscosity	Fluid Loss
DIRECTIONAL SURVEY	10,000	CHEMICAL	9.2	45	7 CC/30

Run No.	Time Since Circ.	Max. Rec. Temp. Deg. F	Equipment No.	Location
ONE	24 HRS	180°	1-1	BIG SPRINGS

Remarks: CIRCULATE SEVERAL HOURS BEFORE LOG.

Run No.	Scale	Tool Used	Depth	Scale Factor Used
ONE	1" = 100'	DIRECTIONAL SURVEY	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	SONIC	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	DUAL INDUCTION LATEROLOG	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	MICRO LATEROLOG	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	FORMATION DENSITY LOG	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	DIPMETER SURVEY	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	CYBERLOOK	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	SIDEWALL NEUTRON POROSITY	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	SIDEWALL CORES	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	DRILL STEM TEST	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	CORES	10,000	

Run No.	Tool Used	Depth	Scale Factor Used
ONE	

APPENDIX B

Reservoir Analysis

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

SOHIO CHEMICAL COMPANY

WDW 163 NO. 1
VISTRON PLANT
CALHOUN COUNTY, TEXAS

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

Petroleum Reserv[illegible]gineering
DALLAS, TEXAS

SOHIO CHEMICAL COMPANY
WDW 163 NO. 1
VISTRON PLANT
CALHOUN COUNTY, TEXAS

DATE : 24 OCT 83
FORMATION : FRIO
DRLG. FLUID: WATER BASE MUD

FILE NO : 2307-3406-29
ANALYSTS : GAL
LABORATORY: VICTORIA
CORES : SCHLUMBERGER

SIDE WALL CORE ANALYSIS

REC IN	DEPTH FEET	PERM MD(*)	POR %	OIL% PORE	WTR% PORE	PROD PROD	OIL% BULK	GAS% BULK	GAS DET	CRIT WTR%	DESCRIPTION
1.0	4720.0								5		SHALE GRY LMY
1.0	4800.0								2		SHALE GRY LMY
1.0	5000.0								3		SHALE GRY LMY
1.0	5200.0	39.	24.5	0.0	86.2	WTR	0.0	3.4	1	60	SD VF-FG SHY SLTY SLMY NO FLU
1.5	5260.0	7.8	20.4	0.0	82.2	(6)	0.0	3.6	4	69	SD VFG SHY(LAM) VSLTY LMY NO FLU
1.3	5300.0	499.	27.7	0.0	88.6	WTR	0.0	3.1	0	38	SD VF-FG SLTY NO FLU
1.3	5325.0	1855.	29.0	0.0	86.5	WTR	0.0	3.9	1	33	SD VF-FG SLTY NO FLU
1.3	5425.0	803.	28.9	0.0	79.9	WTR	0.0	5.8	1	35	SD VF-FG SLTY NO FLU
1.3	5450.0	575.	25.6	0.0	85.4	WTR	0.0	3.8	1	35	SD FG SLTY NO FLU
1.3	5500.0	2345.	32.7	2.4	88.4	WTR	0.8	3.0	0	36	SD VF-FG SLTY NO FLU
1.3	5575.0	265.	26.0	0.0	86.5	WTR	0.0	3.5	0	42	SD VF-FG VSLTY NO FLU
1.3	5650.0	1310.	28.7	3.5	87.4	WTR	1.0	2.6	2	33	SD VF-FG SLTY NO FLU
1.3	5675.0	2663.	32.9	4.6	74.4	WTR	1.5	6.9	1	36	SD VF-FG SLTY NO FLU
1.3	5700.0	18.	23.2	0.0	75.0	WTR	0.0	5.8	2	65	SD VF-FG SHY(LAM) SLTY NO FLU

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

SOHIO CHEMICAL COMPANY
WDW 163 NO. 1

DATE : 24 OCT 83
FORMATION : FRIO

FILE NO : 2307-3406-29
ANALYSTS : GAL

SIDE WALL CORE ANALYSIS

REC IN	DEPTH FEET	PERM MD(*)	POR %	OIL% PORE	WTR% PORE	PROD PROD	OIL% BULK	GAS% BULK	GAS DET	CRIT WTR%	DESCRIPTION
1.3	5725.0	32.	24.7	0.0	77.6	WTR	0.0	5.5	3	63	SD VFG SSHY VSLTY NO FLU

(6) LOW PERMEABILITY

(*) PERMEABILITY VALUES FOR PERCUSSION TYPE SIDEWALL CORES DETERMINED EMPIRICALLY.

NOTE: CRIT WTR% IS AN ESTIMATE OF THE MAXIMUM WATER EACH SAMPLE COULD CONTAIN IN THE FORMATION IF IT IS HYDRCARBON PRODUCTIVE. IT IS SOLELY DEPENDENT UPON THE PERMEABILITY AND POROSITY AND HAS NO RELATIONSHIP TO THE WATER % PORE MEASURED IN THE SAMPLE. IN PRODUCTIVE ZONES THE WATER SATURATION CALCULATED FROM THE INDUCTION LOG TRUE RESISTIVITY SHOULD BE LESS THAN THE CRITICAL WATER.

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CORE LABORAT~ S, INC.
Petroleum Reserv. Engineering
DALLAS, TEXAS

OHIO CHEMICAL CO.
ISTRON

EXAS

DATE ON : 23-OCT-83 OFF: 14-NOV-83 FILE NO : 2202-13918
FORMATION :
DRLG. FLUID: WATER BASE MUD LABORATORY: HOUSTON
LOCATION : ANALYSTS : LV
ELEVATION :

CONVENTIONAL PLUG ANALYSIS

AMPLE UMBER	DEPTH FEET	PERM. MD MAX Ka	He POR	DESCRIPTION
	CORE NO. 1 4900.0-4918.0			
	4900.0			SHALE
	CORE NO. 2 5340.0-5360.0			
7	5340.0	2821.	39.9	
8	5341.0	3340.	35.5	
9	5342.0	2665.	35.7	
10	5343.0	4708.	36.5	
11	5344.0	6196.	33.2	
12	5345.0	2686.	34.4	
13	5346.0	5140.	35.9	
1	5347.0	5103.	40.4	
14	5348.0	1753.	35.7	
15	5349.0	1876.	40.9	
16	5350.0	3495.	34.0	
17	5351.0	1691.	41.7	
2	5352.0	1907.	39.7	
	CORE NO. 3 5360.0-5378.0			
18	5360.0	6811.	40.4	
19	5361.0	5796.	42.5	

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Petroleum Reser[illegible] / Engineering
DALLAS, TEXAS

SOHIO CHEMICAL CO.
VISTRON

DATE ON FORMATION : 23-OCT-83 OFF: 14-NOV-83 FILE NO : 2202-13918
LABORATORY: HOUSTON

CONVENTIONAL PLUG ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX Ka	He POR	DESCRIPTION
3	5362.0	3518.	40.5	
20	5363.0	4896.	39.8	
21	5364.0	1764.	38.5	
22	5375.0	6624.	40.5	
4	5376.0	4394.	38.0	
23	5377.0	6277.	39.1	
24	5378.0	4413.	37.1	
25	5379.0	7217.	40.6	
	CORE NO. 4 5600.0-5618.0			
26	5605.0	1787.	41.5	
27	5606.0	2112.	40.2	
28	5607.0	1943.	39.8	
29	5608.0	2236.	41.9	
5	5609.0	2131.	37.1	
30	5610.0	1870.	40.7	
31	5611.0	2790.	39.4	
32	5612.0	1312.	38.9	
6	5613.0	770.	30.3	
33	5614.0	1234.	39.5	

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Petroleum Reser[illegible]r Engineering
DALLAS, TEXAS

SOHIO CHEMICAL COMPANY
WDW 163 NO. 1
VISTRON PLANT

FILE NO : 2202-13918
COUNTY, STATE: CALHOUN CO., TEXAS
DATE : 17-NOV-83

PARTICLE SIZE ANALYSIS

DEPTH	%XCRS	%CRS	%MED	%FG	%VFG	%CRSSILT	%FINER	TEXTURE INDEX	PERM	POR.
5345.0	0	0	8	66	8	5	13	24	2686.	34.4
5375.0	0	0	9	75	5	3	8	19	6624.	40.5
5612.0	0	0	7	69	7	3	14	24	1312.	38.9

TEXTURE INDEX IS A COMPUTED VALUE USED TO RATE THE QUALITY OF THE SAND. IT IS COMPUTED FROM THE MEASURED GRAIN SIZE, SHALINESS, AND POROSITY. THE INDEX IS SCALED FROM "0" TO "100" WITH "0" REPRESENTING A VERY POROUS COARSE OR MEDIUM GRAIN CLEAN SAND, FREE OF ANY SILT OR OTHER FINER MATERIAL. AN INDEX OF "100" INDICATES A LOW POROSITY SILTSTONE OR MUDSTONE.

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VISTRON PLANT
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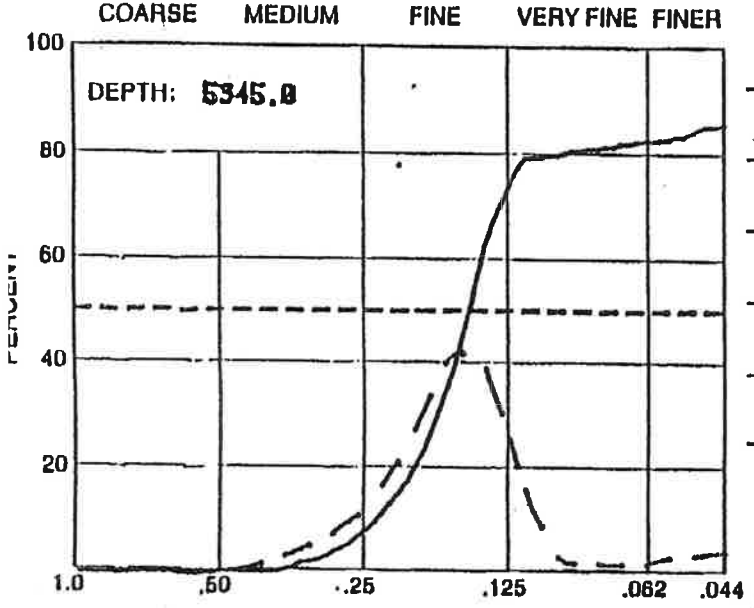
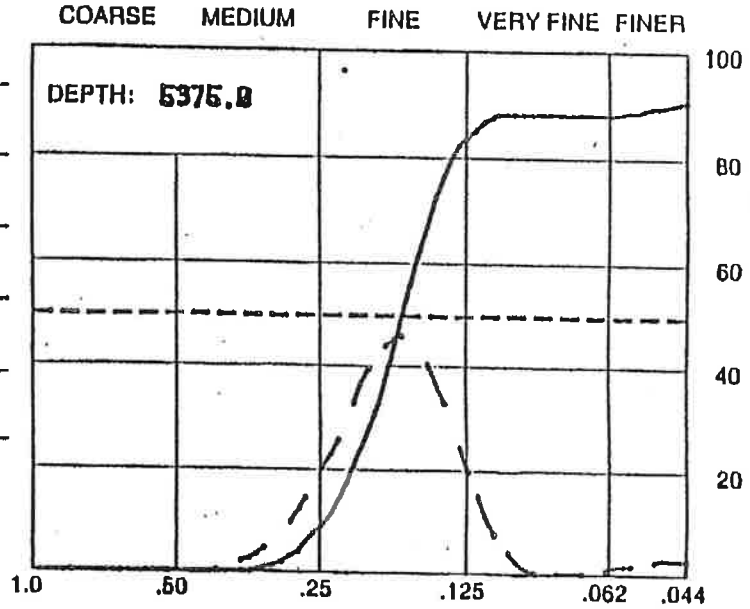
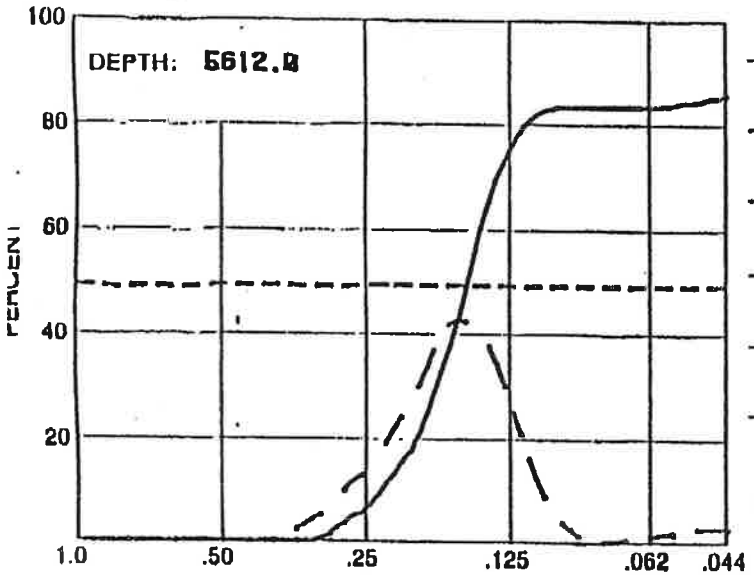
PARTICLE SIZE GRAPHICAL DATA

2292-139.
17-NOV-83



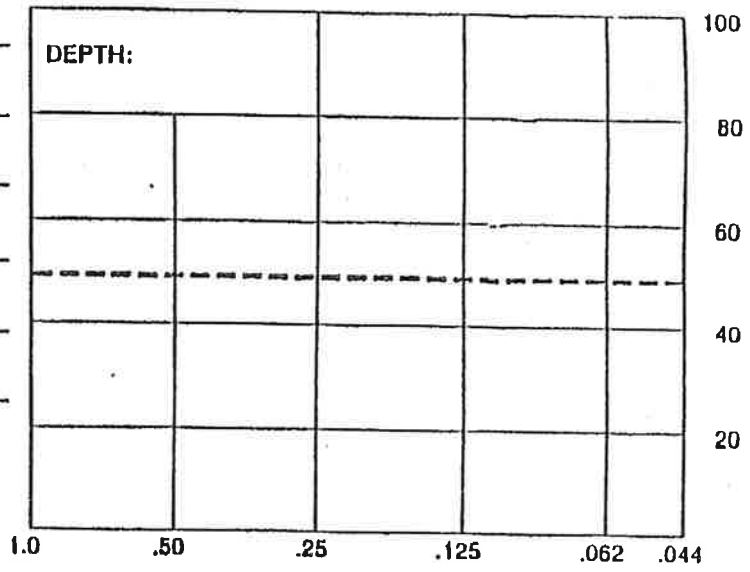
0.154	50 PERCENTILE	0.171
0.121	MEAN GRN DIA	0.170
1.846	STD DEVIATION	0.723
0.526	SKEWNESS	0.310
2.096	KURTOSIS	2.593
1.210	SORTING COEF	1.201





0.156	50 PERCENTILE	
0.121	MEAN GRN DIA	
1.834	STD DEVIATION	
0.564	SKEWNESS	
2.410	KURTOSIS	
1.229	SORTING COEF	

*Denotes an extension of measured data.



GRAIN DIAMETER (MILLIMETERS)

GRAIN DIAMETER (MILLIMETERS)

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Petroleum Reservoir Engineering
DALLAS, TEXAS

SOHIO CHEMICAL COMPANY
WDW 163 NO. 1
VISTRON PLANT
5345.00

2202-13918
17-NOV-83
CALHOUN CO., TEXAS
TEMP 21.00 C. G.D. 2.650

PARTICLE SIZE ANALYSIS DATA

	INCHES	MM	US MESH	SAMPLE WTS	%WTS	CUM% WTS
---------	0.0394	1.0000	18	0.000	0.0	0.0
CGR	0.0331	0.8409	20	0.000	0.0	0.0
	0.0278	0.7071	25	0.000	0.0	0.0
	0.0234	0.5946	30	0.000	0.0	0.0
---------	0.0197	0.5000	35	0.000	0.0	0.0
MGR	0.0166	0.4204	40	0.000	0.0	0.0
	0.0139	0.3536	45	0.002	1.3	1.3
	0.0117	0.2973	50	0.003	2.6	3.8
---------	0.0098	0.2500	60	0.006	4.8	8.6
FGR	0.0083	0.2102	70	0.011	8.3	16.9
	0.0070	0.1768	80	0.020	15.0	31.9
	0.0059	0.1487	100	0.031	23.4	55.3
---------	0.0049	0.1250	120	0.026	19.9	75.2
VFGR	0.0041	0.1051	140	0.006	4.8	80.0
	0.0035	0.0884	170	0.002	1.1	81.2
	0.0029	0.0743	200	0.001	1.0	82.1
---------	0.0025	0.0625	230	0.001	0.8	82.9
SILT	0.0021	0.0526	270	0.002	1.3	84.2
	0.0017	0.0442	325	0.003	2.1	86.3
			<325	0.018	13.7	100.0
			TOTALS	0.133	100.0	100.0

MEDIAN GRAIN SIZE = 0.0061 * (0.1541 MM) (2.6982 PHI)
MEAN GRAIN SIZE CALCULATED FROM 68.0% OF THE DISTRIBUTION = 0.0047 * (0.1206 MM) (3.0515 PHI)
STANDARD DEVIATION CALCULATED FROM 90% OF THE DISTRIBUTION = 1.0460 PHI
COEFFICIENT OF SKEWNESS CALCULATED FROM 90% OF THE DISTRIBUTION = 0.5264
KURTOSIS CALCULATED FROM 90% OF THE DISTRIBUTION = 2.6984
TRASK'S SORTING COEFFICIENT = 1.2097

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SOHIO CHEMICAL COMPANY
WDW 163 NO. 1
VISTRON PLANT
5375.00

2202-13918
17-NOV-83
CALHOUN CO., TEXAS
TEMP 21.00 C. G.D. 2.650

PARTICLE SIZE ANALYSIS DATA

	INCHES	MM	US MESH	SAMPLE WTS	%WTS	CUM% WTS
---------	0.0394	1.0000	18	0.000	0.0	0.0
CGR	0.0331	0.8409	20	0.000	0.0	0.0
	0.0278	0.7071	25	0.000	0.0	0.0
	0.0234	0.5946	30	0.000	0.0	0.0
---------	0.0197	0.5000	35	0.000	0.0	0.0
MGR	0.0166	0.4204	40	0.000	0.0	0.0
	0.0139	0.3536	45	0.000	0.1	0.1
	0.0117	0.2973	50	0.003	2.8	2.9
---------	0.0098	0.2500	60	0.008	6.6	9.5
FGR	0.0083	0.2102	70	0.017	14.0	23.5
	0.0070	0.1768	80	0.027	21.8	45.3
	0.0059	0.1487	100	0.031	24.6	69.9
---------	0.0049	0.1250	120	0.017	13.9	83.8
VFGR	0.0041	0.1051	140	0.006	4.5	88.3
	0.0035	0.0884	170	0.000	0.0	88.3
	0.0029	0.0743	200	0.000	0.0	88.3
---------	0.0025	0.0625	230	0.000	0.0	88.3
SILT	0.0021	0.0526	270	0.001	1.1	89.5
	0.0017	0.0442	325	0.002	1.5	91.0
			<325	0.011	9.0	100.0
			TOTALS	0.125	100.0	100.0

MEDIAN GRAIN SIZE = 0.0067 * (0.1709 MM) (2.5489 PHI)
MEAN GRAIN SIZE CALCULATED FROM 68.0% OF THE DISTRIBUTION = 0.0067 * (0.1696 MM) (2.5596 PHI)
STANDARD DEVIATION CALCULATED FROM 90% OF THE DISTRIBUTION = 0.7231 PHI
COEFFICIENT OF SKEWNESS CALCULATED FROM 90% OF THE DISTRIBUTION = 0.3095
KURTOSIS CALCULATED FROM 90% OF THE DISTRIBUTION = 2.5929
TRASK'S SORTING COEFFICIENT = 1.2007

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SOHIO CHEMICAL COMPANY
WDW 163 NO. 1
VISTRON PLANT
5612.00

2202-13918
17-NOV-83
CALHOUN CO., TEXAS
TEMP 21.00 C. G.D. 2.650

PARTICLE SIZE ANALYSIS DATA

	INCHES	MM	US MESH	SAMPLE WTS	%WTS	CUM% WTS
---------	0.0394	1.0000	18	0.000	0.0	0.0
CGR	0.0331	0.8409	20	0.000	0.0	0.0
	0.0278	0.7071	25	0.000	0.0	0.0
	0.0234	0.5946	30	0.000	0.0	0.0
---------	0.0197	0.5000	35	0.000	0.0	0.0
MGR	0.0166	0.4204	40	0.000	0.0	0.0
	0.0139	0.3536	45	0.000	0.0	0.0
	0.0117	0.2973	50	0.002	2.2	2.2
---------	0.0098	0.2500	60	0.006	5.4	7.7
FGR	0.0083	0.2102	70	0.010	9.4	17.1
	0.0070	0.1768	80	0.019	16.7	33.8
	0.0059	0.1487	100	0.027	24.2	58.0
---------	0.0049	0.1250	120	0.020	18.2	76.2
VFGR	0.0041	0.1051	140	0.007	6.5	82.7
	0.0035	0.0884	170	0.000	0.3	83.0
	0.0029	0.0743	200	0.000	0.0	83.0
---------	0.0025	0.0625	230	0.000	0.0	83.0
SILT	0.0021	0.0526	270	0.001	1.1	84.1
	0.0017	0.0442	325	0.001	1.3	85.4
			<325	0.016	14.6	100.0
			TOTALS	0.111	100.0	100.0

MEDIAN GRAIN SIZE = 0.0062 * (0.1578 MM) (2.6639 PHI)
MEAN GRAIN SIZE CALCULATED FROM 68.0% OF THE DISTRIBUTION = 0.0048 * (0.1212 MM) (3.0447 PHI)
STANDARD DEVIATION CALCULATED FROM 90% OF THE DISTRIBUTION = 1.0340 PHI
COEFFICIENT OF SKEWNESS CALCULATED FROM 90% OF THE DISTRIBUTION = 0.5640
KURTOSIS CALCULATED FROM 90% OF THE DISTRIBUTION = 2.4194
TRASK'S SORTING COEFFICIENT = 1.2293

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APPENDIX C

Well Construction Supporting Documents

HALLIBURTON

TERRA DYNAMICS INC-EBUS
DONOTMAIL-2300 GREENHILL DRIVE
ROUND ROCK, TX, 78664-2775
US

WDW 1

Bee County, TX, US

Cementing Cost Estimate

Proposal 519688 - Version 1.0
October 23, 2024

Submitted by:
Timothy Pohl
3000 N Sam Houston Pkwy E
Houston, TX - 77032
USA

HALLIBURTON

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2 Service Center Contacts 3
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3.1 Job Information 10 3/4" Surface Casing 4
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3.4 Volume Estimate Table 10 3/4" Surface Casing 7
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Halliburton appreciates the opportunity to present this cost estimate and looks forward to being of service to you.

1 Foreword

Enclosed is our cost estimate for cementing the casing strings in the referenced well. The information in this cost estimate includes well data, calculations, materials requirements, and cost estimates. This cost estimate is based on information from our field personnel and previous cementing services in the area.

The selection and use of non-Halliburton plugs and casing attachments often compromises the holistic approach and may jeopardize the overall objective for effective zonal isolation. Furthermore, Halliburton is not involved in the design, manufacture or use of plugs and casing attachments supplied by other manufacturers and assumes no liability for their installation and operation. For this reason we recommend Halliburton plugs and casing attachments be used when Halliburton performs any zonal isolation operation.

Halliburton Energy Services recognizes the importance of meeting society's needs for health, safety, and protection of the environment. It is our intention to proactively work with employees, customers, the public, governments, and others to use natural resources in an environmentally sound manner while protecting the health, safety, and environmental processes while supplying high quality products and services to our customers.

We appreciate the opportunity to present this cost estimate for your consideration and we look forward to being of service to you. Our Services for your well will be coordinated through the Service Center listed below. If you require any additional information or additional designs, please feel free to contact myself or our field representative listed below.

2 Service Center Contacts

SERVICE CENTER:	Victoria, TX
PHONE NUMBER:	PRIMARY: 281 - 501 - 5428

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3 10 3/4" Surface Casing

3.1 Job Information 10 3/4" Surface Casing

Job Criticality Status: GREEN
Well Name: WDW Well #: 1

16" Conductor	0 - 80 ft (MD)
Outer Diameter	16 in
Inner Diameter	15.376 in
Linear Weight	55 lbm/ft
14.75" Open Hole	80 - 1,800 ft (MD)
Inner Diameter	14.75 in
Excess Factor	100 %
10 3/4" Surface Casing	0 - 1,800 ft (MD)
Outer Diameter	10.75 in
Inner Diameter	10.05 in
Linear Weight	40.5 lbm/ft
Casing Grade	J-55
Shoe Joint Length	82 ft
Mud Type	Water Based Mud
Mud Weight	9 lbm/gal

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3.2 Estimated Calculations 10 3/4" Surface Casing

Stage 1

CEMENT: (1,440 ft fill)

1,360 ft * 0.5563 ft3/ft * 100 %	= 1,513.2 ft3
80 ft * 0.6592 ft3/ft * 0 %	= 52.73 ft3
Lead Cement	= 1,565.93 ft3
	= 278.9 bbl
Total Lead	= 816.43 sack

CEMENT: (360 ft fill)

360 ft * 0.5563 ft3/ft * 100 %	= 400.55 ft3
Tail Cement	= 400.55 ft3
	= 71.4 bbl

Shoe Joint Volume: (82 ft fill)

82 ft * 0.5509 ft3/ft	= 45.17 ft3
	= 8 bbl

Tail plus shoe joint	= 445.8 ft3
	= 79.4 bbl
Total Tail	= 420.56 sack

Total Pipe Capacity:

80 ft * 0.5509 ft3/ft	= 44.07 ft3
1,720 ft * 0.5509 ft3/ft	= 947.52 ft3
	= 176.6 bbl

Displacement Volume to Shoe Joint:

Capacity of Pipe - Shoe Joint	= 176.6 bbl - 8 bbl
	= 168.6 bbl

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3.3 Job Volume Estimates 10 3/4" Surface Casing

Stage 1

Fluid 1: Water Spacer

Gel Spacer	Fluid Density:	8.34 lbm/gal
2.5 lbm/bbl FWCA	**Volume:**	**50 bbl**

Fluid 2: Lead Slurry

EXTENDACEM (TM) SYSTEM	Fluid Weight:	12 lbm/gal
0.35 % HR-800	Slurry Yield:	1.918 ft3/sack
0.1 % FE-2	Total Mixing Fluid:	11.02 Gal/sack
11.02 Gal/sk FRESH WATER	**Calculated Volume:**	**278.9 bbl**
	Proposed Volume:	**278.9 bbl**
	Top Of Fluid:	0 ft
	Calculated Fill:	1,440 ft
	Calculated sack:	816.44 sack
	Proposed sack:	820 sack

Fluid 3: Tail Slurry

SBM CEM HALCEM™ SYS	Fluid Weight:	15 lbm/gal
0.5 % HR-800	Slurry Yield:	1.06 ft3/sack
5.06 Gal/sk FRESH WATER	Total Mixing Fluid:	5.06 Gal/sack
	Calculated Volume:	**79.4 bbl**
	Proposed Volume:	**79.4 bbl**
	Top Of Fluid:	1,440 ft
	Calculated Fill:	360 ft
	Calculated sack:	420.5 sack
	Proposed sack:	425 sack

Fluid 4: Water Based Mud

Fresh Water Displacement Fluid	Fluid Density:	8.34 lbm/gal
	Volume:	**168.6 bbl**

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3.4 Volume Estimate Table 10 3/4" Surface Casing

Calculations are used for volume estimation. Well conditions will dictate final cement job design.

Stage 1

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	SPACER	Gel Spacer	8.34	6	50 bbl
2	CEMENT	Lead Cement	12		820 sack
3	CEMENT	Tail Cement	15	6	80.2 bbl
4	MUD	Fresh Water Displacement Fluid	8.34	7	168.6 bbl

NOTE: These slurries and spacers will require lab testing. The additives and concentrations are estimates based on field experience in the area and may need to be modified prior to the job. The proposed spacer is designed to be generally compatible with water base mud systems. Compatibility testing with field mud samples used may indicate changes in the additive package and the related costs.

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3.5 Cost Estimate

Mtrl Nbr	Description	Qty	UOM	Unit Price	Net Amount
7521	**CMT SURFACE CASING BOM** *7521*	1.00	JOB	0.00	0.00
Services & Equipment					
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT Number of Units	120.00 1	MI	USD 9.79/ 1 MI	939.84
2	MILEAGE FOR CEMENTING CREW Number of Units	120.00 1	MI	USD 5.76/ 1 MI	552.96
16091	ZI - PUMPING CHARGE FEET/METERS (FT/M) DEPTH	1.00 FT 1800	EA	USD 5,290.00/ 1 EA	4,232.00
76400	MILEAGE,CMT MTLS DEL/RET MIN NUMBER OF TONS	60.00 49.266	MI	USD 3.35/ 1 MI	7,921.98
3965	HANDLE&DUMP SVC CHRG, CMT&ADDITIVES,ZI Unit of Measurement NUMBER OF EACH	1,341.00 EA 1	CF	USD 5.49/ 1 CF	5,889.67
	SubTotal				**19,536.45**
Cementing Materials					
452981	CMT, ExtendaCem (TM) system	820.00	SK	0.00	9,491.35
100001615	CHEM, FE-2 *FE-2*	61.00	LB	USD 5.56/ 1 LB	84.79
101619742	CHEM, HR-800, 50 LB SACK *HR-800*	211.00	LB	USD 11.07/ 1 LB	583.94
1144382	SBM CEM HALCEM™ SYS	80.00	BBL	USD 40.00/ 1 BBL	3,200.00
101619742	CHEM, HR-800, 50 LB SACK *HR-800*	163.00	LB	USD 11.07/ 1 LB	451.10
	SubTotal				**13,811.18**
143826	Circulating Iron Rental & Delivery, ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN TOTAL NUMBER	1.00 JOB 1	EA	USD 1,250.00/ 1 EA	1,250.00
100003714	CHEM, FWCA, 50 LB BAG *FWCA*	125.00	LB	0.00	0.00
	Total Gross Amount				**71,315.34**
	Total Item Discounts				**36,717.71**
	Total Net Amount	**USD**			**34,597.63**

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Mtrl Nbr	Description	Qty	UOM	Unit Price	Net Amount
Optional Charge					
Includes 6 hours of on location					
16092	ADDITIONAL HOURS (PUMPING EQUIPMENT), ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN HOURS	1.00 H 1	EA	USD 1,139.00/ 1 EA	**1,139.00**
53	1" PIPE FOR CEMENTING TOP OUTSIDE NUMBER OF DAYS	100.00 1	EA	0.00	**0.00**
100008028	CHEM, SUGAR,GRANULATED, 50LB BAG	50.00	LB	USD 6.96/ 1 LB	**69.60**
526969	CMT, STx Booster Pump-Skid, per day	1.00	EA	USD 2,484.00/ 1 EA	**1,863.00**
756221	CMT RNTL BULK TRUCK ONSITE 0-8 HRS	1.00	EA	USD 1,568.00/ 1 EA	**1,568.00**

Primary Plant: Victoria, TX, USA
Secondary Plant: Victoria, TX, USA
Price Book Ref: 29 - SOUTHEAST
Price Date: 04/01/24

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4 7 5/8" Protection Casing

4.1 Job Information 7 5/8" Protection Casing

Job Criticality Status: GREEN
Well Name: WDW — Well #: 1

10 3/4" Surface Casing	0 - 1,800 ft (MD)
Outer Diameter	10.75 in
Inner Diameter	10.05 in
Linear Weight	40.5 lbm/ft
Casing Grade	J-55
9.875" Open Hole	1,800 - 3,900 ft (MD)
Inner Diameter	9.875 in
Excess Factor	30 %
7 5/8" Protection Casing	0 - 3,900 ft (MD)
Outer Diameter	7.625 in
Inner Diameter	6.969 in
Linear Weight	26.4 lbm/ft
Shoe Joint Length	82 ft
Multiple Stage Cementer	3,000 ft (MD)

Mud Type	Water Based Mud
Mud Weight	10 lbm/gal

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4.2 Estimated Calculations 7 5/8" Protection Casing

Stage 1

SPACER: (1,006 ft fill)

1,006 ft * 0.2148 ft3/ft * 30 %	= 280.73 ft3
Total Spacer	= 280.73 ft3
	= 50 bbl

CEMENT: (900 ft fill)

900 ft * 0.2148 ft3/ft * 30 %	= 251.27 ft3
Stage 1 Primary	= 251.27 ft3
	= 44.7 bbl

Shoe Joint Volume: (82 ft fill)

82 ft * 0.2649 ft3/ft	= 21.72 ft3
	= 3.9 bbl

Tail plus shoe joint	= 272.87 ft3
	= 48.6 bbl
Total Tail	= 184.5 sack

Total Pipe Capacity:

1,800 ft * 0.2649 ft3/ft	= 476.81 ft3
2,100 ft * 0.2649 ft3/ft	= 556.27 ft3
	= 184 bbl

Displacement Volume to Shoe Joint:

Capacity of Pipe - Shoe Joint	= 184 bbl - 3.9 bbl
	= 180.1 bbl

Stage 2

CEMENT: (2,620 ft fill)

820 ft * 0.2148 ft3/ft * 30 %	= 229.02 ft3
1,800 ft * 0.2338 ft3/ft * 0 %	= 420.8 ft3
Lead Cement	= 649.82 ft3
	= 115.7 bbl
Total Lead	= 338.69 sack

CEMENT: (380 ft fill)

380 ft * 0.2148 ft3/ft * 30 %	= 106 ft3
Tail Cement	= 106 ft3
	= 15 bbl

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Total Tail	= 100.11 sack

Total Pipe Capacity:

1,800 ft * 0.2649 ft3/ft	= 476.81 ft3
1,200 ft * 0.2649 ft3/ft	= 317.87 ft3
	= 141.5 bbl

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4.3 Job Volume Estimates 7 5/8" Protection Casing

Stage 1

Fluid 1: Water Based Spacer

11.5 lb/gal Tuned Spacer III
37.58 gal/bbl FRESH WATER
0.5 lbm/bbl FE-2
0.15 gal/bbl D-AIR 3000L
145 lbm/bbl BARITE

Fluid Density:	11.5 lbm/gal
Volume:	**50 bbl**

Fluid 2: Tail Slurry

SBM CEM HALCEM™ SYS
0.4 % HR-800

Fluid Weight:	16 lbm/gal
Slurry Yield:	1.479 ft3/sack
Total Mixing Fluid:	5.88 Gal/sack
Calculated Volume:	**48.6 bbl**
Proposed Volume:	**48.6 bbl**
Top Of Fluid:	3,000 ft
Calculated Fill:	900 ft
Calculated sack:	184.58 sack
Proposed sack:	185 sack

Fluid 3: Water Based Spacer

Estimated Displacement Fluid

Fluid Density:	10 lbm/gal
Volume:	**38.6 bbl**

Fluid 4: Water Based Spacer

Sugar Water
5 lbm/bbl Sugar

Fluid Density:	8.33 lbm/gal
Volume:	**20 bbl**

Fluid 5: Water Based Spacer

Estimated Displacement Fluid

Fluid Density:	10 lbm/gal
Volume:	**121.5 bbl**

Multiple Stage Cementer 3,000(MD)

Stage 2

Fluid 1: Water Based Spacer

11.5 lb/gal Tuned Spacer III
37.58 gal/bbl FRESH WATER
0.5 lbm/bbl FE-2
0.15 gal/bbl D-AIR 3000L
145 lbm/bbl BARITE

Fluid Density:	11.5 lbm/gal
Volume:	**50 bbl**

Fluid 2: Lead Slurry

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EXTENDACEM (TM) SYSTEM	Fluid Weight:	12 lbm/gal
0.35 % HR-800	Slurry Yield:	1.918 ft3/sack
0.1 % FE-2	Total Mixing Fluid:	11.02 Gal/sack
11.02 Gal/sk FRESH WATER	**Calculated Volume:**	**115.7 bbl**
	Proposed Volume:	**115.7 bbl**
	Top Of Fluid:	0 ft
	Calculated Fill:	2,620 ft
	Calculated sack:	338.8 sack
	Proposed sack:	340 sack

Fluid 3: Tail Slurry

SBM CEM HALCEM™ SYS	Fluid Weight:	15 lbm/gal
0.35 % HR-800	Slurry Yield:	1.06 ft3/sack
0.1 % FE-2	Total Mixing Fluid:	5.06 Gal/sack
5.06 Gal/sk FRESH WATER	**Calculated Volume:**	**18.9 bbl**
	Proposed Volume:	**18.9 bbl**
	Top Of Fluid:	2,620 ft
	Calculated Fill:	380 ft
	Calculated sack:	100 sack
	Proposed sack:	100 sack

Fluid 4: Water Based Spacer

Estimated Displacement Fluid	Fluid Density:	10 lbm/gal
	Volume:	**141.5 bbl**

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4.4 Volume Estimate Table 7 5/8" Protection Casing

Calculations are used for volume estimation. Well conditions will dictate final cement job design.

Stage 1

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	SPACER	11.5 lb/gal Tuned Spacer III	11.5		50 bbl
2	CEMENT	Stage 1 Primary	16	8	48.7 bbl
3	SPACER	Estimated Displacement Fluid	10		38.6 bbl
4	SPACER	Sugar Water	8.33		20 bbl
5	SPACER	Estimated Displacement Fluid	10		121.5 bbl

Stage 2

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate	Downhole Volume
1	SPACER	11.5 lb/gal Tuned Spacer III	11.5		50 bbl
2	CEMENT	Lead Cement	12		340 sack
3	CEMENT	Tail Cement	15		18.9 bbl
4	SPACER	Estimated Displacement Fluid	10		141.5 bbl

NOTE: These slurries and spacers will require lab testing. The additives and concentrations are estimates based on field experience in the area and may need to be modified prior to the job. The proposed spacer is designed to be generally compatible with water base mud systems. Compatibility testing with field mud samples used may indicate changes in the additive package and the related costs.

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4.5 Cost Estimate

Mtrl Nbr	Description	Qty	UOM	Unit Price	Net Amount
7522	**CMT INTERMEDIATE CASING BOM** *7522*	1.00	JOB	0.00	0.00
Services & Equipment					
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT Number of Units	120.00 1	MI	USD 9.79/ 1 MI	587.40
2	MILEAGE FOR CEMENTING CREW Number of Units	120.00 1	MI	USD 5.76/ 1 MI	345.60
16091	ZI - PUMPING CHARGE FEET/METERS (FT/M) DEPTH	1.00 FT 3900	EA	USD 7,652.00/ 1 EA	7,652.00
3965	HANDLE&DUMP SVC CHRG, CMT&ADDITIVES,ZI Unit of Measurement NUMBER OF EACH	934.00 EA 1	CF	USD 5.49/ 1 CF	2,563.83
76400	MILEAGE,CMT MTLS DEL/RET MIN NUMBER OF TONS	60.00 38.458	MI	USD 3.35/ 1 MI	3,865.03
143826	Circulating Iron Rental & Delivery, ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN TOTAL NUMBER	1.00 DAY 1	EA	USD 1,250.00/ 1 EA	1,250.00
756221	CMT RNTL BULK TRUCK ONSITE 0-8 HRS	1.00	EA	USD 1,568.00/ 1 EA	1,568.00
1148215	CMT PRODUCTION CASING JOB CHARGE	1.00	JOB	USD 11,000.00/ 1 JOB	11,000.00
	SubTotal				**28,831.86**
Cementing Materials					
483826	SBM, CMT, Tuned Spacer III	50.00	BBL	USD 284.00/ 1 BBL	2,840.00
101007444	CHEM, D-AIR 3000L, 5 GAL PAIL *D-AIR 3000L*	8.00	GAL	USD 140.55/ 1 GAL	224.88
100001615	CHEM, FE-2 *FE-2*	25.00	LB	USD 5.56/ 1 LB	27.80
1257440	CHEM, BARITE, BULK *BARITE*	7,250.00	LB	USD 0.31/ 1 LB	449.50
1144382	SBM CEM HALCEM™ SYS	49.00	BBL	USD 100.00/ 1 BBL	4,900.00
101619742	CHEM, HR-800, 50 LB SACK *HR-800*	70.00	LB	USD 11.07/ 1 LB	154.98
483826	SBM, CMT, Tuned Spacer III	50.00	BBL	USD 284.00/ 1 BBL	2,840.00
100001615	CHEM, FE-2 *FE-2*	25.00	LB	USD 5.56/ 1 LB	27.80
101007444	CHEM, D-AIR 3000L, 5 GAL PAIL *D-AIR 3000L*	8.00	GAL	USD 140.55/ 1 GAL	224.88
1257440	CHEM, BARITE, BULK *BARITE*	7,250.00	LB	USD 0.31/ 1 LB	449.50
452981	CMT, ExtendaCem (TM) system	340.00	SK	0.00	3,139.84
101619742	CHEM, HR-800, 50 LB SACK *HR-800*	88.00	LB	USD 11.07/ 1 LB	194.83
100001615	CHEM, FE-2 *FE-2*	25.00	LB	USD 5.56/ 1 LB	27.80
1144382	SBM CEM HALCEM™ SYS	19.00	BBL	USD 70.00/ 1 BBL	1,330.00
100001615	CHEM, FE-2 *FE-2*	8.00	LB	USD 5.56/ 1 LB	8.90

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Mtrl Nbr	Description	Qty	UOM	Unit Price	Net Amount
101619742	CHEM, HR-800, 50 LB SACK *HR-800*	27.00	LB	USD 11.07/ 1 LB	59.78
	SubTotal				**16,900.49**
100008028	CHEM, SUGAR,GRANULATED, 50LB BAG *Sugar*	100.00	LB	USD 6.96/ 1 LB	139.20
	Total Gross Amount				**96,472.18**
	Total Item Discounts				**50,600.63**
	Total Net Amount	**USD**			**45,871.55**

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Mtrl Nbr	Description	Qty	UOM	Unit Price	Net Amount
Optional Charge					
Includes 8 hours of on location					
16092	ADDITIONAL HOURS (PUMPING EQUIPMENT), ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN HOURS	1.00 H 1	EA	USD 1,139.00/ 1 EA	**1,139.00**
526969	CMT, STx Booster Pump-Skid, per day	1.00	EA	USD 2,484.00/ 1 EA	**1,863.00**

Primary Plant: Victoria, TX, USA
Secondary Plant: Victoria, TX, USA
Price Book Ref: 29 - SOUTHEAST
Price Date: 04/01/24

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5 Proposal Cost Summary

Job Name	Cost
10 3/4" Surface Casing	34,597.63
7 5/8" Protection Casing	45,871.55
Total Cost USD	80,469.18

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6 Conditions

The cost in this analysis is good for the materials and/or services outlined within and shall be valid for 30 days from the date of this proposal. In order to meet your needs under this proposal with a high quality of service and responsive timing, Halliburton will be allocating limited resources and committing valuable equipment and materials to your area of operations. Accordingly, the discounts reflected in this proposal are available only for materials and services awarded on a first-call basis. Alternate pricing may apply in the event that Halliburton is awarded work on any basis other than as a first-call provider.

The unit prices stated in the proposal are based on our current published prices. The projected equipment, personnel, and material needs are only estimates based on information about the work presently available to us. At the time the work is actually performed, conditions then existing may require an increase or decrease in the equipment, personnel, and/or material needs. Charges will be based upon unit prices in effect at the time the work is performed and the amount of equipment, personnel, and/or material actually utilized in the work. Taxes, if any, are not included. Applicable taxes, if any, will be added to the actual invoice.

It is understood and agreed between the parties that with the exception of the subject discounts, all services performed and equipment and materials sold are provided subject to Halliburton's General Terms and Conditions contained in our current price list, (which include LIMITATION OF LIABILITY and WARRANTY provisions), and pursuant to the applicable Halliburton Work Order Contract (whether or not executed by you), unless a Master Service and/or Sales Contract applicable to the services, equipment, or materials supplied exists between your company and Halliburton, in which case the negotiated Master Contract shall govern the relationship between the parties. A copy of the latest version of our General Terms and Conditions is available from your Halliburton representative or at: http://www.halliburton.com/terms for your convenient review, and we would appreciate receiving any questions you may have about them. Should your company be interested in negotiating a Master Contract with Halliburton, our Law Department would be pleased to work with you to finalize a mutually agreeable contract. In this connection, it is also understood and agreed that Customer will continue to execute Halliburton usual field work orders and/or tickets customarily required by Halliburton in connection with the furnishing of said services, equipment, and materials.

Any terms and conditions contained in purchase orders or other documents issued by the customer shall be of no effect except to confirm the type and quantity of services, equipment, and materials to be supplied to the customer.

If customer does not have an approved open account with Halliburton or a mutually executed written contract with Halliburton, which dictates payment terms different than those set forth in this clause, all sums due are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice.

Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

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APPENDIX D

AOR Search Protocol and Non-Freshwater Artificial Penetrations in AOR

AOR SEARCH PROTOCOL

SOURCES OF IDENTIFICATION OF NON-FRESHWATER ARTIFICIAL PENETRATIONS

Uranium Energy Corporation
Bee County, Texas

SOURCE	*TYPE OF INFORMATION ACQUIRED*
Railroad Commission of Texas (RCT)	State Repository for oil and gas well records.
Maps	Commercially prepared oil and gas base maps which show operator, well name, approximate drilling data and field name.
County Maps	Commercially prepared oil and gas base maps compiled from "scout" tickets (completion information received from individual oil companies).
Field Maps	Maps prepared by RRC personnel for commercial base maps. Data include survey name, fee name, acreage configuration of tracts of land, operator name, and well location data.
Microfiche and Microfilm Records	Records filed with the RRC prior to 1973 are on microfiche and microfilm. Some RRC districts records are filmed through 1980.
Unit Cards	Microfiche records for wells which had records filed with the RRC prior to 1962.
Well Records; Folder Rolls	Duplicate copies of unit cards which sometimes contain information that was not included in the initial filming of the unit cards.
Well Records: Run 20 to 30 and A to I	Folder rolls which encompass a period of time from 1945 to 1960 and commonly have three to five rolls for a specific year and operator number.
Well Records: Major Runs	Special set of film that contains only information on records filed by major operators.
Well Records: Old Warehouse Film	Film set which contains some of the very earliest information filed with the RRC and includes oil and gas well records filed from 1919 to 1939.
Well Records: K, L, and M Film	Film set which includes portions of oil and gas well records filed with the RRC from 1963 to March 1966.
Potential Film	Filing system currently used at the RRC which contains film records of all wells that produce oil and/or gas and were placed in a designated oil or gas field.
Wildcat and Suspense Film	The wells on this set of film differ in that they were to be drilled in wildcat fields or fields which were not producing at the time the Application to Drill was submitted to the RRC.
Well Records Files	Hard copy files of data not yet placed on microfilm.
Suspense Files	These files contain the most recent information to be filed with the Central Records Department.
Balcones Research Center University of Texas	The Balcones Research Center maintains a well sample library that contains approximately 750,000 drillers' logs from the 1920s to the early 1960s. Drillers' logs contain well location data, formation records, casing records, initial production potential, and sometimes the plugging information.
Commercial Log Libraries	Commercial libraries maintain extensive electric log collections as well as scout ticket files.
Scout Tickets	Scout tickets or "completion cards" usually include information on well name, location, drilling dates, total depth, elevation of ground surface, casing records, results of well, and completion data if the well was completed. Today, scout tickets of wells from a certain geographical area are sold by commercial companies which provide scout ticket data.

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MAP ID #1

API# 42-025-02792
DRY HOLE

(1)

Application to Drill, Deepen or Plug Back.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4-66

17

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK Drill

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE.
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

(2)

SPS

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet, if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 700 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 2541 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date October 2, 19 67

Name of company or operator

Name Pan American Petroleum Corporation

Address Box 1980

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Ira Heard

Number of Acres 813.31 Well No. 3

Number of wells on lease 1

Elevation -- (Ft. above sea level) Section No. - Block No. --

Survey Garrett Roache A-59

Zone or Reservoir Wildcat

To be Located in Medio Creek Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) 700 FEL and 3300 FSL of the Ira Heard Lease, Garrett Roache A-59 Survey County Bee County

11 Miles SE direction from Beeville, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling Upon Approval

Depth to which you propose to drill 5200 feet.

Date work will start deepening --

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name Mr. Burch Speans

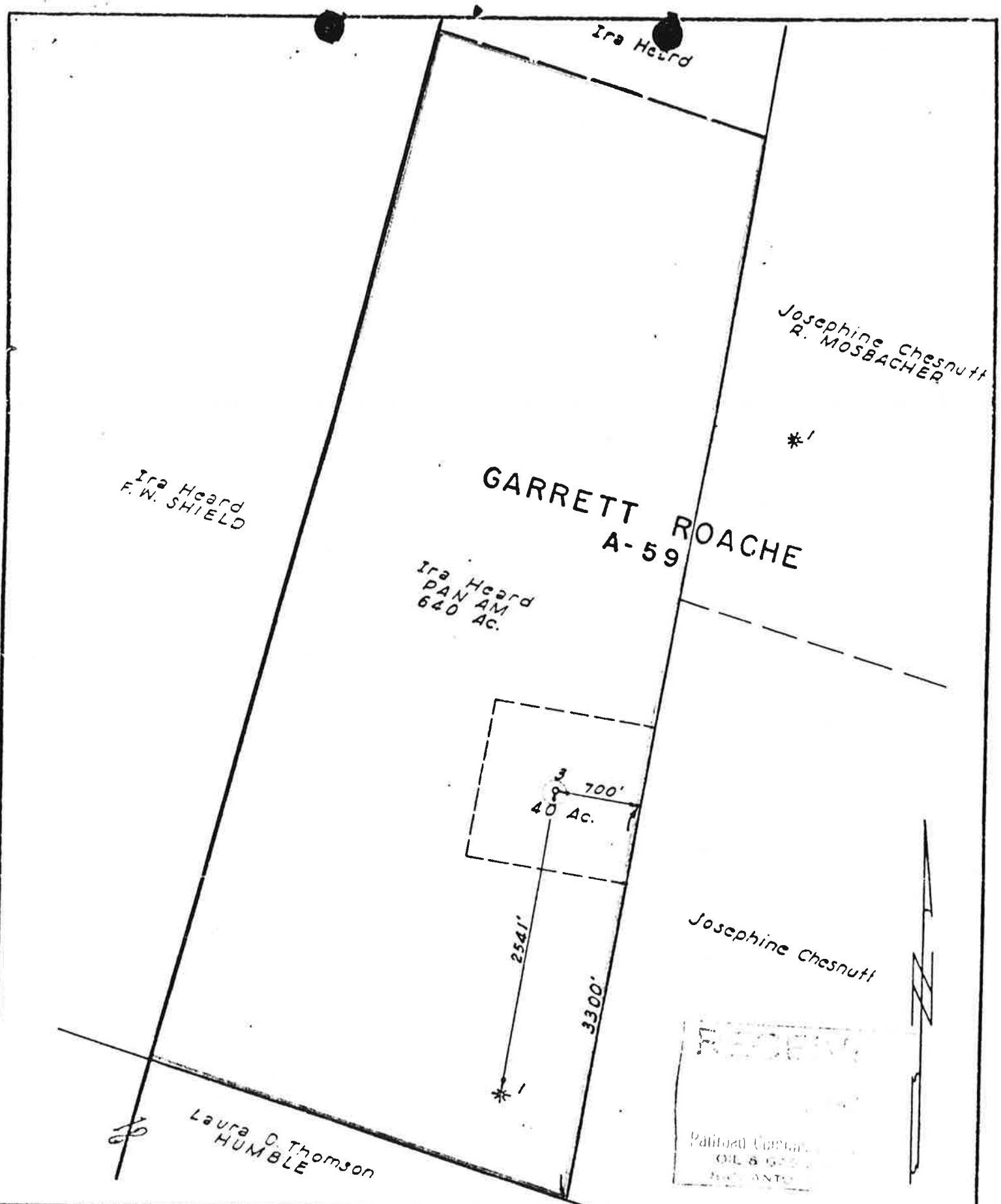
Address Box 207 Vanderpool, Texas 78885

RECEIVED
OCT 1967
Railroad Commission of Texas
GAS DIVISION
SAN ANTONIO, TEXAS

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

025-2[illegible]125

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE



PAN AMERICAN PETROLEUM CORPORATION

LOCATION PLAT

Ira Heard Lse No 163590, Garrett Roache Survey A-59, Medio Creek Field, Bee County, Texas

SCALE 1" = 1000'

Dr. By: J.J.G. 3-27-67

DRG. NO.

025-20125

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

025-20125

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: II

4 RRC Lease or Id. Number:

2 FIELD NAME (as per RRC Records): Medio Creek

3. LEASE NAME: Ira Heard

5. Well Number: 3

6. OPERATOR: PAN AMERICAN PETROLEUM CORPORATION

10. County: Bee

7 ADDRESS: P. O. Drawer 1980, Corpus Christi, Texas

11. Date Drilling Permit Issued: 10-4-67

8 SURFACE LOCATION: 700 FEET FROM East LINE, AND 3300 FEET FROM South LINE

12. Date Drilling Commenced: 11-7-67

9 SECTION, BLOCK, AND SURVEY: Ira Heard Lease, Garrett Roache A-59 Survey

13. Date Drilling Completed: 11-13-67

15. Type of Well (Oil, Gas, Dry)*: Dry

16 Type of Completion (Single, Dual, Etc.): NA

17. Total Depth: 5000'

14. Date Well Plugged: 11-13-67

18 FORM W-1 (Intention to Drill) Filed in Name of: PAN AMERICAN PETROLEUM CORPORATION

19 Manner of Placement

PLUG #1	250	SACKS	TOP	941'	BOTTOM	1632'	TYPE	Common Neat
PLUG #2	200	SACKS	TOP	0	BOTTOM	525'	TYPE	Common Neat
PLUG #3		SACKS	TOP		BOTTOM		TYPE	
PLUG #4		SACKS	TOP		BOTTOM		TYPE	

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? Rig Pump

22. Mud Weight: 9.4 LBS/GAL

23 Depth of Deepest Fresh Water: FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25 If NO, Explain: -----

26 Name and Address of Party Plugging Well: The Western Company Victoria, Texas

27 Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8	303	-	303	-

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Mrs. Georgie Heard - 205 Del Mar - Corpus Christi, Texas
F. W. Shields - 1422 Milam Bldg. - San Antonio, Texas 78205
Humble Oil & Gas - Box 2180 - Humble Bldg. - Houston, Texas 77001
R. Mosbacher - 502 Bank of Commerce Bldg. - Houston, Texas

29 Was Notice given before Plugging to each of the above and RRC District Office?
YES [X] NO [ ]

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

H. C. Dobson — REPRESENTATIVE OF COMPANY
Area Admin. Supervisor — TITLE
3-24-70 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R.R.C. OF TEXAS
MAR 25 1970
O.G.
SAN ANTONIO, TEXAS

B

DR3C

*All Dry Holes, Fill In Reverse Side.

025 20125

DRILLING LOG

Ira Heard Well # 3

Depth	Formation
0 - 325	Sand & Clay w/Shale Strks
325 - 1576	Shale & Sand
1576 - 3309	Shale & Sand
3309 - 3960	Shale & Sand
3960 - 4083	Shale
4083 - 4845	Shale
4845 - 5000 TD	Sand w/Shale Strks

RECEIVED
R.R.C. OF TEXAS
MAR 25 1970
O.G.
SAN ANTONIO, TEXAS

025-20125

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-27-67)

CEMENTING REPORT
(To be filed with each Form C-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) Medio Creek	*2. RRC District 2
*3. Operator PAN AMERICAN PETROLEUM CORPORATION	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Ira Heard	*6. Well Number 3
*7. Location (Section, Block, and Survey) Garrett Roach A-59 Survey	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry *(If additional space is needed, use "REMARKS" on reverse side.)*						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	11-13-67	11-13-67				
*20. Size of Hole or Pipe in which Plug Placed (inches)	7 7/8	8 5/8				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)	250	200				
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)	941	0				

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-20125

Form CS-25 (Rev. 7-66) The Western Company

TGL		
JJM		
MWL		
RJB		
HRD		
JLM		
JLR		
JFF		

NOV 15 1967

CORPUS CHR

Des roy

AFFIDAVIT ON PLUG TO ABANDON WELL

STATE OF TEXAS)

COUNTY OF VICTORIA)

I, Garland Lasater, being of lawful age and having full knowledge of the facts hereinbelow set out, do state:

That I am an employee of The Western Company, employed as a "Service Supervisor" and as such employee am engaged in the operation of The Western Company's equipment employed in the cementing of wells being drilled for oil and / or gas;

That on the 13 day of November, 1967, I operated the aforesaid cementing equipment under the direction, supervision and control of Pan American Petroleum Corp. (Customer) in the Pumping of cement into said well Number 3 situated on the Ira Heard Lease in Bee County, Texas, which, according to the customer was for the purpose of plugging and abandoning said well:

That according to the information furnished me by the customer, his agent or representative, a cement plug was placed in said well from

941 depth to the 1632 depth

0 depth to the 525 depth

____ depth to the ____ depth

Affiant Garland Lasater
(Western Company Employee)

****

BY COMMISSION ORDER, DATED JULY 15, 1965, IT IS NO LONGER NECESSARY TO NOTARIZE CEMENTING AFFIDAVITS.

****

RECEIVED
R.R.C. OF TEXAS
MAR 25 1970
O.G.
SAN ANTONIO, TEXAS

025-20125

MAP ID #2

API# 42-025-33738
GAS WELL

Plugging Report

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

RECEIVED
RRC OF TEXAS
MAY 19 2014
OIL & GAS WELL COMPLIANCE
AUSTIN, TX

RRC JOB #2014-02-2189

API NO. (If Available) 42-025-33738

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

Received
RRC of Texas
MAY 15 2014
Oil & Gas Division
San Antonio, Texas

1. RRC District: 02	
2. FIELD NAME (as per RRC Records): Heard Ranch (3900)	3. Lease Name: Sasser
4. RRC Lease or ID. Number: 258905	
5. Well Number: 4	
6. OPERATOR: Mego Resources, LLC	6a. Original Form W-1 Field in Name of:
7. ADDRESS: 1229 FM 889, George West, TX 78022	6b. Any Subsequent W-1's Filed in Name:
10. County: Bee	
11. Date Drilling Permit Issued: 8/18/10	
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 4,378.7 Feet From NW Line and 557.7 Feet From SW Line of the SASSER Lease	
12. Permit Number: 700754	
9a. SECTION, BLOCK, AND SURVEY: G. Roache / A-59	9b. Distance and Direction From Nearest Town in this County: 10 miles NE of Skidmore
13. Date Drilling Commenced: 10/1/10	
16. Type Well (Oil, Gas, Dry): Gas; Total Depth: 5210	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s
14. Date Drilling Completed: 10/9/10	
18. If Gas, Amt. Of Cond on Hand at time of Plugging: None	
15. Date Well Plugged: 04/21/14	

GAS ID or OIL LEASE #	Oil-O Gas-G	Well #

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	04/17/14	04/17/14	04/17/14	04/21/14				
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2	4 ½, 8 5/8				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	3678	1450	870	13				
*22. Sacks of Cement Used (each plug)	26	12	12	3				
*23. Slurry Volume Pumped (cu. Ft.)	27.56	12.72	12.72	3.18				
*24. Calculated Top of Plug (ft.)	3380	1350	750	3				
25. Measured Top of Plug (if tagged) (ft.)		1342						
*26. Slurry Wt. #/Gal.	16.4	16.4	16.4	16.4				
27. Type Cement	H	H	H	H				

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.#/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	815	812	12 1/4
4 1/2	11.6	5150	5147	7 7/8
2 3/8		3682	0	

29. Was any Non-Drillable Material (Other Than Casing) Left in This Well? ☐ Yes ☑ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

RECEIVED
CENTRAL RECORDS
DEC 17 2014
AUSTIN, TEXAS

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4154	TO	4164	FROM		TO	
FROM	3654	TO	3660	FROM		TO	
FROM	3790	TO	3792	FROM		TO	
FROM		TO		FROM		TO	
FROM		TO		FROM		TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

- Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Basic Energy Services — Name of Cementing Company — 04/30/14

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY — Managing Partner (TITLE) — 5/7/14 (DATE) — Phone (361) 449-3178 (A/C NUMBER)

copies 5/15/14
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING

31. Was Well filled with Mud-Laden Fluid, According to the regulations of the Railroad Commission ☒ Yes ☐ No	32. How was Mud Applied? Pumped thru tbg.	33. Mud Weight 9.5 LBS/GAL

34 Total Depth 5210	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35, Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? ☒ Yes ☐ No
Depth of Deepest Fresh Water 1400	Surface	800	36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement in this well
Basic Energy Services, P.O. Box 2266, Victoria, TX 77902

Date RRC District Office notified of plugging 04/16/14

38. Name(s) and Address(es) of Surface Owners of Well Site
STUART JASSEK, P.O. BOX 907, CORPUS CHRISTI, TX 78403

39. Was Notice Given Before Plugging to the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. **For Dry Holes, this From must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.**

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Jet cut 2 3/8" tbg on top of packer @ 3682' & recovered.
Cut & capped well 3' below ground level.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin TX 78711-2967
www.rrc.state.tx.us

CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

AUSTIN 3-23-11

P-4
5/02—WWW-1

READ INSTRUCTIONS ON BACK

1. Field name exactly as shown on proration schedule	2. Lease name as shown on proration schedule			
HEARD RANCH (3900)	SASSER			
3. Current operator name exactly as shown on P-5 Organization Report	4. Operator P-5 no	5 Oil Lse/Gas ID no	6. County	7. RRC district
MEGO RESOURCES LLC	559362	258905	BEE	02
8 Operator address including city, state, and zip code	9. Well no(s) *(see instruction E)*			
1229 FM 889 GEORGE WEST, TEXAS 78022	4			
	10 Classification ☐ Oil ☒ Gas ☐ Other *(see instruction A)*		11 Effective Date	
			3/10/11	

12. Purpose of Filing. (Complete section a or b below.) *(See instructions B and G)*

a. Change of: ☐ operator ☐ oil or condensate gatherer ☐ gas gatherer ☐ gas purchaser ☐ gas purchaser system code
☑ field name from Wildcat
☐ lease name from _____

OR

b. New RRC Number for: ☐ oil lease ☒ gas well ☐ other well (specify)_____
Due to: ☒ new completion or recompletion ☐ reclass oil to gas ☐ reclass gas to oil ☐ consolidation, unitization, or subdivision (oil lease only)

13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). *(See instruction G).*

Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left *(Attach an additional sheet in same format if more space is needed)*	Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X		TRUNKLINE GAS COMPANY, LLC TRUNL		100	
	X	GULF COAST ENERGY, INC. GulfC	0009	100	

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RRC OF TEXAS
SEP 12 2011
O&G
AUSTIN TX

14. Authorized OIL or CONDENSATE Gatherer(s). *(See instruction G).*

Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First *(Attach an additional sheet in same format if more space is needed)*	Percent of Take

RRC USE ONLY
Reviewer's initials: TJS
Approval date: 9-26-11

15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission

Name of Previous Operator _____ Signature _____

Name (print) _____ ☐ **Authorized Employee of previous operator** ☐ **Authorized agent of previous operator** *(see instruction G)*

Title _____ Date _____ Phone with area code _____

16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.

BOB MITCHELL
Name (print)

Signature _____

MANAGING PARTNER
Title

☒ **Authorized Employee of current operator** ☐ **Authorized agent of current operator** *(see instruction G)*

rmitchell@megoresources.com
E-mail Address (optional)

03/22/11
Date

(361) 649-5800
Phone with area code

ORIGINAL

Type or Print only
483-047

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

025-33738

Form G-1
Rev. 4/1/83

LOG ATTACHED

API No. 42-

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RCC Records or Wildcat)	WILDCAT
2. LEASE NAME	SASSER
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report)	MEGO RESOURCES LLC
RCC Operator No.	559362
4. ADDRESS	1229 FM 889 GEORGE WEST, TEXAS 78022
5. Location (Section, Block, and Survey)	GARRETT ROACHE A-59
5b Distance and direction to nearest town in this county	10 MILES
6. If operator has changed within last 60 days, name former operator	
7. RRC District No.	02
8. RRC Gas ID No	258905
9. Well No.	4
10. County of well site	BEE
11. Purpose of filing	Initial Potential ☐ Retest ☐ Reclass ☐ Well record only (Explain in remarks) ☒
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no	FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil-O Gas-G / Well #
13. Pipe Line Connection	TRUNKLINE
14. Completion or recompletion date	11/09/10
15. Any condensate on hand at time of workover or recompletion?	☐ Yes ☒ No
16 Type of Electric or other Log Run.	TRIPLE COMBO

RECEIVED RRC OF TEXAS NOV 30 2010 OIL & GAS DIVISION SAN ANTONIO, TX

GAS MEASUREMENT DATA

Section I

Date of Test

Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ Positive Choke ☐ Orifice Vent Meter ☐ Pitot Tube ☐ Critical-flow Prover ☐

Gas production during test MCF

Run Size	Line Size	Orif. or Choke Size	24 hr Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1										
2										
3										
4										

FIELD DATA AND PRESSURE CALCULATIONS

Section II

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix}=	Avg Shut-in Temp. °F	Bottom Hole Temp °F@ (Depth)

$D_{eff}^{8/3}$= $\sqrt{T_f}$ = $\sqrt{\quad}$ = $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = $\sqrt{\frac{GL}{C}}$ = _____ = _____

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_W	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_W/P_1
Shut-In									
1									
2									
3									
4									

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (Thousands)	$P_f^2 - P_s^2$ (Thousands)
Shut-In							
1							
2							
3							
4							

Angle of Slope
θ . . . . . .
n . . . . . .
Absolute Open Flow
. . . . . MCF/DAY

RECEIVED CENTRAL RECORDS MAR 30 2011 AUSTIN, TEXAS

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec.91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester _____ Name of Company _____ RRC Representative _____

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec.91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: Operator's representative [signature] Title: MANAGING PARTNER Date: 11/24/10 Tel: 361-649-5800 W/C Number

MAPPING

SHGrid 12 OCT 2010

VALID PERMIT

FEB 16 2011

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well ☑ Deepening ☐ Plug Back ☐ Other ☐

18. Permit to Drill Plug Back or Deepen — DATE 8/18/10 — PERMIT NO. 700754
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: MEGO RESOURCES LLC

20. Number of producing wells on this lease in this field (reservoir) including this well: N/A

21. Total number of acres in this lease: 5,300

22. Date Plug Back, Deepening Workover or Drilling Operations: Commenced 10/01/10 Completed 11/08/10

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to the nearest lease boundaries of lease on which this well is located: 4,378.7 Feet From WEST Line of the SOUTH West Line and 557.7 Feet From North Lease SASSER

25. Elevation (DF, RKB, RT, GR, ETC.): GR 152.7'

26. Was directional survey made other than inclination (Form W-12)? ☐ Yes ☒ No

27. Top of Pay

28. Total Depth: 5,210

29. P.B. Depth: 5,050

30. Surface Casing Determined by: Field Rules ☐ Recommendation of T.D.W.R. ☐ Railroad Commission (Special) ☒ Dt. of Letter / / Dt. of Letter 10/01/10

31. Is well multiple completion? ☐ Yes ☐ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-O Gas-G	Well #

33. Intervals Drilled by: Rotary Tools: ALL Cable Tools:

34. Name of Drilling Contractor: ARROW DRILLING

35. Is Cementing Affidavit Attached? ☒ Yes ☐ No

36. CASING RECORD (Report All Strings Set In Well)

CASING SIZE	WT#/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	815	—	325 SXS A	12 1/4	SURFACE	521 CU FT
4 1/2	11.6	5,150	—	453A 560H	7 7/8	SURFACE	1,745 CU FT

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
From	To
From	To
From	To

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS: WELL NOT COMPLETED YET

Cementer: Fill in shaded areas.
Operator: Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Mayo Resources, LLC	559362	02	Bee
5. Field Name (Wildcat or exactly as shown on RRC records)	**6. API No**	**7. Drilling Permit No.**	
Wildcat	42-025-33738	700754	
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
SASSER			

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date	10-2-10					
13. •Drilled hole size	12¼					
•Est. % wash or hole enlargement	50%	WATER BOARD LETTER DATED 8/23/10				
14. Size of casing (in. O.D.)	8⅝	Depth 0-800		1400 ft.		
15. Top of liner (ft.)	N/A	13(A) Exception Dated 10/1/10				
16. Setting depth (ft.)	815	Surface Casing		800 ft.		
17. Number of centralizers used	6	D. V. @		N/A Ft.		
18. Hrs. waiting on cement before drill-out	8					
19. API cement used: 1st Slurry — No. of sacks	205					
1st Slurry — Class	A					
1st Slurry — Additives	4% bentonite 2% CaCl					
2nd Slurry — No. of sacks	120					
2nd Slurry — Class	A					
2nd Slurry — Additives	2% CaCl					
3rd Slurry — No. of sacks						
3rd Slurry — Class						
3rd Slurry — Additives						
20. Slurry pumped: 1st — Volume (cu. ft.)	379.25					
1st — Height (ft.)	918'					
2nd — Volume (cu. ft.)	141.6					
2nd — Height (ft.)	343'					
3rd — Volume (cu. ft.)						
3rd — Height (ft.)						
Total — Volume (cu. ft.)	520.85					
Total — Height (ft.)	1261					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?	YES					

RECEIVED
RRC OF TEXAS
NOV 30 2010
OIL & GAS DIVISION
SAN ANTONIO, TX

22. Remarks

4% Bentonite in Lead Slurry is Pre-Hydrated to obtain a ~~yield of 1.85~~

Stephen Rhodes 12-1-10

OVER

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

RANDALL BROWN — Name and title of cementer's representative
SCC — Cementing Company
Randall Brown — Signature

PO Box 967 — Address
Beeville — City,
TX 78104 — State, Zip Code
361 358 2910 — Tel.: Area Code Number
10 2 10 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Bob McFarrell — Typed or printed name of operator's representative
Managing Partner — Title
Signature

1229 FM 889 — Address
George West — City,
Texas — State,
78022 — Zip Code
361-449-3178 — Tel.: Area Code Number
11/24/10 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form W-15, **in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaed areas.
Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Divsion

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Mego Resources, LLC	559362	02	Bee

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Wildcat	42-025-33738	700754

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
Sasser			#4

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				10/09/10			
13. ●Drilling hole size				7 7/8			
●Est. % wash or hole enlargement				25%			
14. Size of casing (in. O.D.)				4 1/2			
15. Top of liner (ft.)				N/A			
16. Setting depth (ft.)				5,150			
17. Number of centralizers used				45			
18. Hrs. waiting on cement before drill-out				—			
1st Slurry	19. API cement used: No. of sacks ▸			453			
	Class ▸			15/85 PozA			
	Additives ▸			see remarks			
2nd Slurry	No. of sacks ▸			560			
	Class ▸			50/50 PozH			
	Additives ▸			see remarks			
3rd Slurry	No. of sacks ▸						
	Class ▸						
	Additives ▸						
1st	20. Slurry pumped: Volume (cu. ft.) ▸			1006			
	Height (ft.) ▸			2984			
2nd	Volume (cu. ft.) ▸			739			
	Height (ft.) ▸			2160			
3rd	Volume (cu. ft.) ▸						
	Height (ft.) ▸						
Total	Volume (cu. ft.) ▸			1745			
	Height (ft.) ▸			5144			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				no			

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SAN ANTONIO, TX

remarks:15/85 PozA+8%D20+3%D44+.2%D46+.250ppsD29+.350%D13
remarks:50/50/PozH+2%D20+6%D44+.250ppsD29+.150%D13+.2%D46

Stephen Fuller 12-1-10

CEMENTING TO PLUG AND ABANDON	PLUG#1	PLUG#2	PLUG#3	PLUG#4	PLUG#5	PLUG#6	PLUG#7	PLUG#8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Ernest Gonzalez	Dowell Schlumberger	Ernest Gonzalez	
Name and title of cementer's representative	Cementing Company	Signature	
1126 Airport Rd.	Alice,Tx. 78332	(361) 664-3458	October 9, 2010
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Bob Mitchell	Managing Partner	Bob Mitchell	
Typed or printed name of operator's representative	Title	Signature	
1229 FM 889	George West, Texas	361-649-5800	10/10/10
Address	City, State, Zip Code	Tel : Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's State Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a muliple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

pfs 1,454

Cementer: Fill in shaded areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Mego Res
Sasser #4

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Mego Resources, LLC	559362	02	Bee

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Wildcat	42-025-33738	700754

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11 Well No.
SASSER			4

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				10-19-10			
13. •Drilled hole size		8 5/8" 24# @ 810'	10" Hole?	810-1,454			
•Est. % wash or hole enlargement				25%			
14. Size of casing (in. O.D.)				4½"			
15. Top of liner (ft.)				Surface @			
16. Setting depth (ft.)				pfs 1454			
17. Number of centralizers used				45			
18. Hrs. waiting on cement before drill-out				—			
1st Slurry — 19. API cement used: No. of sacks				255			
1st Slurry — Class				A			
1st Slurry — Additives				4% Bent 2% cacl			
2nd Slurry — No. of sacks				125			
2nd Slurry — Class				A			
2nd Slurry — Additives				2% cacl			
3rd Slurry — No. of sacks							
3rd Slurry — Class							
3rd Slurry — Additives							
1st — 20. Slurry pumped: Volume (cu. ft.)				471			
1st — Height (ft.)				1909'			
2nd — Volume (cu. ft.)				1425			
2nd — Height (ft.)				596'			
3rd — Volume (cu. ft.)							
3rd — Height (ft.)							
Total — Volume (cu. ft.)				619.25			
Total — Height (ft.)				2,805			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

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22. Remarks 4% Bentonite in Lead Slurry is Pre-Hydrated to Obtain a yield yield of 1.85 / circulated cmt. through pfs. in 4½" @ 1454' through 8 5/8 surface valve.

* 35 BBLs Returns

SH 12-1-10

OVER

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Name and title of cementer's representative: [signature] Business Mgr. | Cementing Company: South Central Cementers | Signature: [signature]

Address: P O Box 967 | City: Beeville | State, Zip Code: TX 78104 | Tel.: Area Code Number: 361 358 2910 | Date: mo. 10 day 19 yr. 10

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or printed name of operator's representative: Bob Mitchell | Title: Managing Partner | Signature: [signature]

Address: 1229 FM 889 | City: George West | State, Zip Code: Texas 78022 | Tel.: Area Code Number: 361-449-3178 | Date: mo. 11 day 24 yr. 10

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception **before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Form W-12
(1-1-71)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

6. RRC District: 02

7. RRC Lease Number (Oil completions only):

8. Well Number: 4

9. RRC Identification Number (Gas completions only):

10. County: Bee

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): WILDCAT

2. LEASE NAME: Sasser

3. OPERATOR: Mego Resources, LLC

4. ADDRESS: 1229 FM 889 George West, Texas 78022

5. LOCATION (Section, Block, and Survey): Garrett Roache A-59

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
455	4.55	.25	.44	2.00	2.00
1450	9.95	.50	.87	8.66	10.66
2378	9.28	.50	.87	8.07	18.73
3354	9.76	.75	1.31	12.79	31.52
4278	9.24	.75	1.31	12.10	43.62
5210	9.32	.75	1.31	12.21	55.83

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SAN ANTONIO, TX

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☑ no

18. Accumulative total displacement of well bore at total depth of 5210 feet = 55.83 feet.

*19. Inclination measurements were made in ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line _____ feet.

21. Minimum distance to lease line as prescribed by field rules _____ feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? _____

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Signature of Authorized Representative: [signature]

Name of Person and Title (type or print): Victor Reynolds Vice Pres

Name of Company: Arrow Drilling

Telephone: 361 643 0200 (Area Code)

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Signature of Authorized Representative: [signature]

Name of Person and Title (type or print): Bob Mitchell

Operator: Mego Resources LLC

Telephone: 361 449-3178 (Area Code)

Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: _____

* Designates items certified by company that conducted the inclination surveys.

BAKER HUGHES

Baker Atlas

HIGH DEFINITION INDUCTION LOG SM
COMPENSATED Z-DENSILOG SM
COMPENSATED NEUTRON LOG
GAMMA RAY LOG
TTRM SUB SM

FILE NO:	COMPANY	MEGO RESOURCES, LLC
	WELL	SASSER #4
API NO: 42-025-33738	FIELD	WILDCAT
	COUNTY	BEE STATE TEXAS

Ver. 3.87

LOCATION:
4378.7' FSWL & 557.7' FNWL OF LEASE
8312.3' FNEL & 3000' FSEL OF THE
GARRETT ROACHE SURVEY A-59

OTHER SERVICES
FMT
SWC

PERMANENT DATUM	GL	ELEVATION	152.7 FT
LOG MEASURED FROM	KB	10 FT	ABOVE P.D.
DRILL. MEAS. FROM	KB		

ELEVATIONS:
KB 162.7 FT
DF 161.7 FT
GL 152.7 FT

DATE		07-Oct-2010		
RUN	TRIP	1	1	
SERVICE ORDER		590846		
DEPTH DRILLER		5210 FT		
DEPTH LOGGER		5242 FT		
BOTTOM LOGGED INTERVAL		5234 FT		
TOP LOGGED INTERVAL		810 FT		
CASING DRILLER		8.625 IN	@ 800 FT	
CASING LOGGER		810 FT		
BIT SIZE		7.875 IN		
TYPE OF FLUID IN HOLE		WBM		
DENSITY	VISCOSITY	9.8 LB/G	46 S	
PH	FLUID LOSS	10.5	6.0 C3	
SOURCE OF SAMPLE		FLOWLINE		
RM AT MEAS. TEMP.		2.3 OHMM	@ 75 DEGF	@
RMF AT MEAS. TEMP.		1.7 OHMM	@ 75 DEGF	@
RMC AT MEAS. TEMP.		2.9 OHMM	@ 75 DEGF	@
SOURCE OF RMF	RMC	CALCULATED	CALCULATED	
RM AT BHT		1.2 OHMM	@ 147 DEGF	@
TIME SINCE CIRCULATION		6 HRS		
MAX. RECORDED TEMP.		147 DEGF		
EQUIP. NO.	LOCATION	HL-6681	VICTORIA	
RECORDED BY		C. OFFURUM		
WITNESSED BY		R. BRAUGH/B. MTCHELL		

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SAN ANTONIO, TX

MAP ID #3

API# 42-025-01543
GAS WELL
PLUGGED

REVISED 52019

Please refer to File No. [illegible]

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Page 1

(3)

APPLICATION TO DRILL OR DEEPEN

IS THIS AN APPLICATION TO DRILL OR DEEPEN Drill ?

FILE IN [illegible] WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

RECEIVED
APR 23 1953
Railroad Commission of Texas
OIL AND GAS DIVISION
REFUGIO, TEXAS

READ CAREFULLY AND COMPLETELY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a [illegible] accurate [illegible], made to scale, of this lease, block or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designation must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned the well, [illegible] names and addresses of adjoining lease or property owners, and designate all property or lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 2100 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 2640 feet.

Date April 20, 1953

Name of company or operator

Name Union Producing Company

Address Box 711

City Beeville, Texas

Description of farm or lease:

Name of Lease Chesnutt

Number of Acres 1470.15 Well No. 2

Number of wells on lease None

Survey G. Roach, A-59

Elevation ..... Feet (ABOVE SEA LEVEL)

Section No. ..... Block No. .....

Located in Medio Creek Field

(If Wildcat state above)

Bee County

9 Miles SW direction from

Blanconia nearest postoffice or town.

Rotary or Cable Tools Rotary

Date work will start drilling 4-30-53

Depth to which you propose to drill 5500 feet.

Date work will start deepening .....

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name .....

Address .....

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

FILE No.

DRAW SKETCH IN SPACE BELOW OR FILE CERTIFIED LEASE PLAT
(Be sure that all required locations, footages, distances and scales are given.)

NORTH

Beginning at the southwest corner of the Josephine Chesnutt 1470.15 acre lease, go north along the west line 4100 feet, thence 2100 feet easterly at right angles to the location falling in the Garrett Roach Survey, Abstract 59, Bee County, Texas.

WEST

EAST

SOUTH

Scale of Plat

I, W. M. Gill, being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Name W. M. Gill, Title District Engineer

Subscribed and sworn to before me this 21st day of April, 1953

Correspondence regarding this well should be addressed to:

Name D. Lane

Notary Public Beeville, Bee County, Texas.

Crystal Schlather Crystal Schlather

Address Beeville, Texas

32019

UNION PRODUCING COMPANY

Beeville, Texas
April 21, 1953

RECEIVED
APR 22 1953
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

Re: Union Producing Company
Chesnutt No. 2
Medio Creek Field
Bee County, Texas

Mr. H. E. Roach
District Supervisor
Railroad Commission of Texas
Refugio, Texas

Dear Mr. Roach:

Attached is application for permit to drill the above captioned well, with plat thereof attached, at the following location:

> Beginning at the southwest corner of the Josephine Chesnutt 1470.15 acre lease, go north along the west line 4100 feet, thence 2100 feet easterly at right angles, to the location falling in the Garrett Roach Survey, Abstract 59, Bee County, Texas.

This revises our application of April 20, correcting the spelling of the lease name. This well will be on the same lease for which drilling permit was granted, January 21, 1952, designating the well name as Chestnutt No. 1.

Yours very truly,

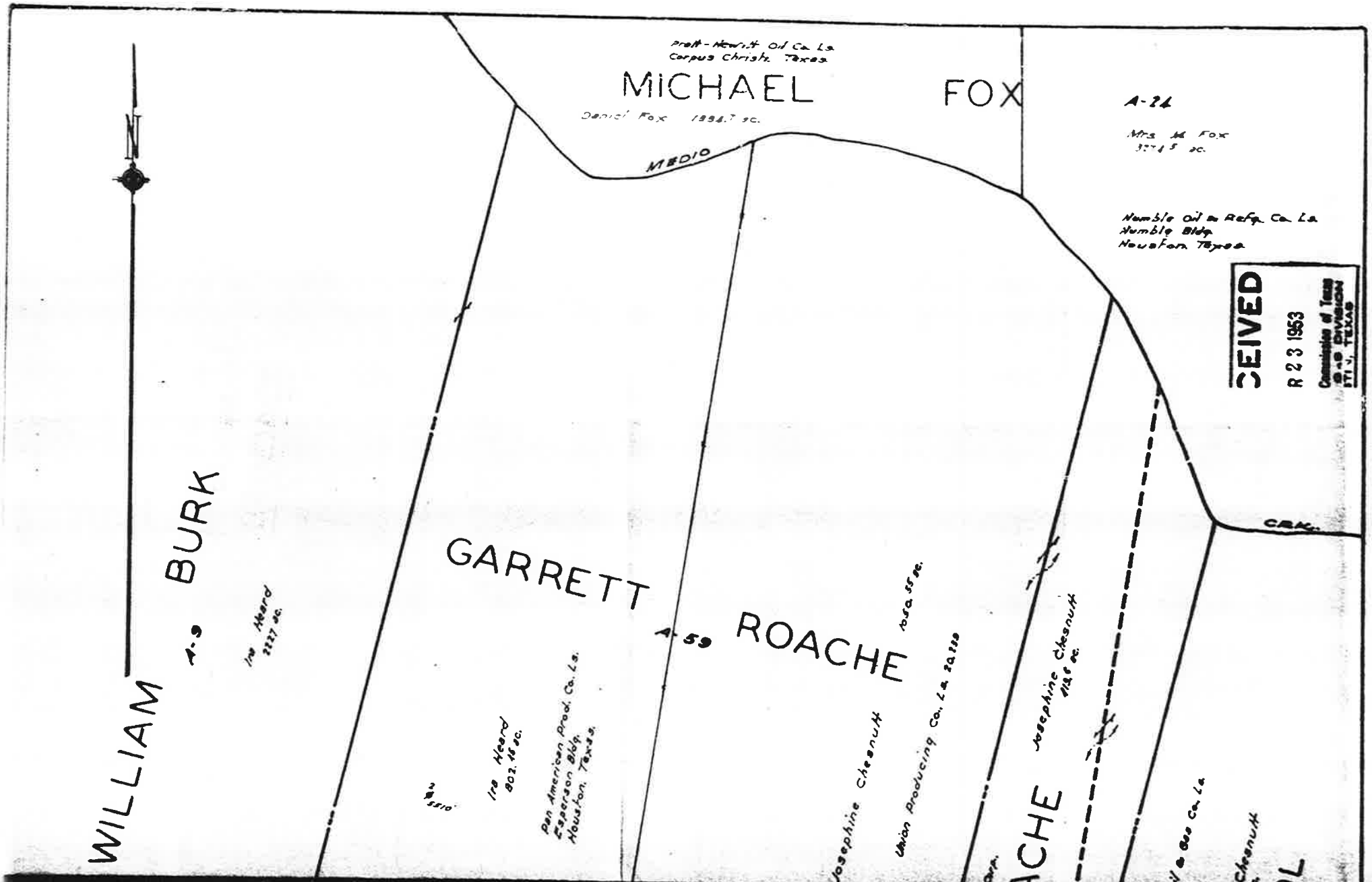
UNION PRODUCING COMPANY

W. M. Gill

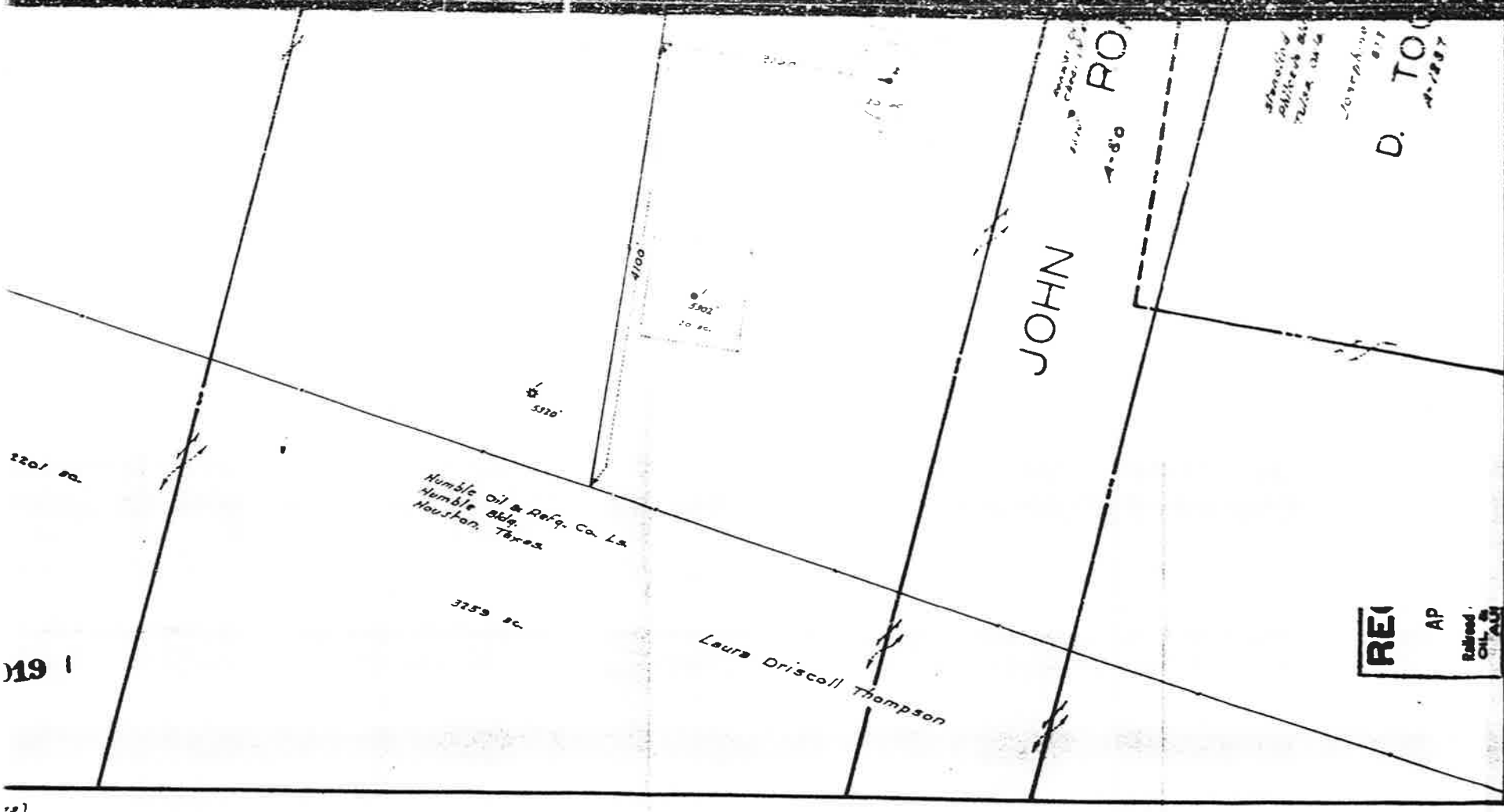
W. M. Gill
District Engineer

WMG/xx

cc -- Mr. R. W. Dwigans
Mr. W. B. Phillips
Mr. W. J. Quigles



Pratt-Hewitt Oil Co. Ls.
Corpus Christi, Texas
MICHAEL FOX
Daniel Fox 1334.7 sc.
MEDIO
A-24
Mrs. M. Fox
Humble Oil & Refg. Co. Ls.
Humble Bldg.
Houston, Texas
CEIVED
R 23 1953
Commission of Texas
GAS DIVISION
TIN, TEXAS
WILLIAM BURK
A-9
Ira Heard
2227 sc.
GARRETT ROACHE
A-59
Ira Heard
802.45 sc.
Pan American Prod. Co. Ls.
Esperson Bldg.
Houston, Texas
Josephine Chesnutt
Union Producing Co. Ls.
Josephine Chesnutt
ACHE
Chesnutt



-tify that I am familiar with the conditions as they actually exist on this lease
plat which drawn to the scale indicated hereon is to the best of my knowledge
ect: That it accurately reflects said lease with all Wells thereon and that
and location of Wells thereon are as indicated on the Plat.

W.M. Gill W.M. Gill

and sworn to before me, this 16th day, of April, 1953.

Crystal Schlather, Notary Public in and for Bee County, Texas.

lease: Union Producing Company.
se: Josephine Chesnutt.
h lease: 1470.15 Acres Covered by this Plat: 1470.15
of Property: NE Portion of Garrett Roache Sur. A-59.
Creek.

JOSEPHINE CHESNUTT LSE

BEE COUNTY, TEXAS.

UNION PRODUCING CO. ENGR. DEPT. BEEVILLE, TEXAS.

Scale: 1" = 1000'

April 16, 1953

File No. 20239

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2
Well Record

Operator Union Producing Company Address Box 711, Beeville, Texas

County Bee Survey Garrett Roach Block No. - Sec. No. -

Lease Name Chanrutt Well No. 2 Elevation (Above Sea Level)

Name of Field in which well is located Medio Creek

Form 1 (Notice of Intention to Drill) Was Filed in Name of Union Producing Company

Drilling Commenced 6-2, 1953 Drilling Completed 6-20-, 1953

Is this a NEW WELL? Yes ; DEEPENING? No or a WORK-OVER? No

Correspondence regarding this well should be sent to: Name D. Lane Address Box 711, Beeville, Tex.

Has an allowable been assigned to this well? No

SIZE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
9-5/8" OD	978.60				978.60'		650 sxs. cement
5-1/2" OD	4,857.69				4,857.69'		400 sxs. cement
2-3/8" OD	4,837.33				4,837.33'		Tubing

Open Flow Potential

Initial Production of Gas—Volume 6,300 MCF/24 hrs. Pressure 1,915# R.P. lbs. per square inch

Initial Production of Oil: Barrels -

Initial Production of Distillate: Barrels 3.0 Bbls./MMcf.

Is this an OIL well? No, a GAS well? Yes, or a Dry HOLE? No

DESCRIPTION OF PROPERTY

NORTH

WEST

EAST

SOUTH

GENERAL REMARKS

This well is completed in the 4,800' Sand through perforations 4,864-1/2' - 4,866-1/2' by Schlumberger measurements.

RECEIVED
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OIL & GAS DIVISION
REFUGIO, TEXAS

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FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

52019

BEE COUNTY, TEXAS
MEDIO CREEK FIELD
UNION PRODUCING COMPANY
NO. 2 CHESNUTT LSE. NO. 20239
(LOC: Beg. at SW cor. of 1050.55 ac. tr., go 4100' NE alg. NWL, th. E at R/A 2100' to loc. Sc: 2650' NE of #1. 1250' SEL of Garrett Roache Sur., Ab. 59)

COMMENCED: 6-2-53
COMPLETED: 6-21-53
ELEVATION: 170'-D, 160.4'-G (UPC)
168'-D, 160'-G (L&S)
TD: 4868' P.B. 4866½'
PERFS: 4863½'-4865½' w/14 shts.
IP: 6,300 Mcf/day, open flow, RP 1915#.

CASING RECORD: Set 30 joints 9-5/8" OD seamless casing at 991' w/650 sacks.
Set 141 joints 5-1/2" OD seamless casing at 4868'.

TUBING RECORD: Ran 156 joints 2-3/8" OD seamless tubing at 4846'.

0-10.80	Rotary space
1100	Surface sand and clay
2125	Sand and shale
3590	Shale and sandy shale
3663	Shale (c)
3700	Shale
3709	Shale (c)
3711	Sand (c)
3763	Shale (c)
3980	Sticky shale
3995	Shale (c)
3998	Siltstone (c)
4007	Shale (c)
4015	Sand (c)
4555	Shale w/hard streaks
4595	Shale (c)
4596	Hard sand (c)
4610	Shale (c)
4808	Hard shale
4837	Shale (c)
4850	Limey shale
4863	Shale (c)
4868	Sand (c)

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This form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL--DO NOT USE ESTIMATES
(SEE INSTRUCTIONS ON REVERSE SIDE)

FORM G-1
Oil Well Potential Test
Date of Receipt in District Office
MAR 27 1956
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

FIELD NAME: Medio Creek
(USE FIELD NAME BY WHICH THIS FIELD DESIGNATED ON CURRENT PRORATION SCHEDULE.)

RAILROAD COMMISSION DISTRICT NUMBER Two 01883

NAME OF OPERATOR: Burch Spears (USE NAMES YOU WILL USE ON YOUR G. R. REPORT IN REPORTING PRODUCTION.)

LEASE: Josephine Chestnutt WELL NO. 2

ADDRESS: Victoria, Texas (CITY AND STATE)

SECTION Garret BLOCK

P. O. BOX NO. 41

SURVEY Roach A-59 ELEVATION 168'

COUNTY IN WHICH WELL IS LOCATED Bee Unit Designation Ac. in Unit

9 Miles Northeasterly direction from Beeville, Texas nearest postoffice or town.

Date potential test commenced March 22, 19 56 Hour 9 A. M.

Date potential test completed March 23, 19 56 Hour 9 A. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? Yes Date Log filed 1953

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 800 psi

Flowing pressure on tbg 200 psi

Length of test 24 Hrs. --- Mins.

Size choke 16/64 Make choke OCT

Was this well flowed for the entire duration of this test without the use of swab or other artificail flowing device? No

Is this well being jetted? Yes

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? 1297

Data Necessary on Pumping Well

Make of Pumping unit

Length of stroke used

No. strokes per minute

Size working barrel

Length of test Hrs. Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Oil producing during this test into Tank (TANK OR PIT) Name of P. L. Connection Cactus Petroleum Inc.

Date this well was last shot or acidized --- If Shot No. Quarts used --- If Acidized No. Gallons used ---

Barrels of oil produced from this well since shot or treatment to time this test was started ---
(ANSWER ONLY IF THIS TEST WAS OCCASIONED BY SHOOTING OR TREATING THIS WELL.)

Barrels of oil produced from this well from its completion date or reworked completion dat to the beginning of this test 190 Percent water produced during this test 56 Total depth of this well 4868 Ft.
(APPLIES TO NEW AND REWORKED WELLS ONLY.)

Is this a test of a new well for which no previous allowable has been assigned? No

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? No

What is the 24-hour potential at which it is carried currently on proration schedule? Reclassify from Gas to Oil

If this test is the result of a workover what was the nature of the job? None

Hour well completed ___ M. Date well completed June 20, 19 53.

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK NO.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
367	1000	65	7	0	9	10	2	10	183.94	Fluid	183.94
										BS&W	103.00
										Oil	80.94

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RESULT OF THIS POTENTIAL TEST (Bbls. of Crude Oil per 24 hours) 80.9 (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS 1198 cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 26 API

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of Union Producing Company

Date "Notice of Intention to Drill" was filed April 21, 1953

Is Location "REGULAR," or was "SPECIAL PERMIT" required? Regular

If special permit was secured what is permit number? _____

Total number of acres in this lease 1470.15

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 1

Location of well, relative to lease boundaries of lease on which this well is located: _____ feet from _____ line and _____ feet from _____ line of the See Remarks lease

Size of surface casing 9 5/8 Number feet of surface casing set 978.60

Size of oil string 5½" OD Number of feet of oil string run 4857.69

Type of tubing head OCT Type of Bradenhead OCT

Top of pay 4864.5 Ft. Total Depth 4868 Ft. Size tubing run 2" EUE

Perforated from 4864.5 to 4866.5 No. Shots 7 No. ft. tubing run 4837

Kind of fuel used to drill this well Butane Amt of fuel used --

Where fuel was secured Contractor

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

Burch Spears
Representative of Company making test

B. B. Marquess for Fred W. Shield
Representative of Offset Operator — Offset Operator

Pipe Line Gauger — for — Pipe Line Company

Representative of the Railroad Commission _____

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

Burch Spears for Burch Spears
Representative of Company making test — Company making test

SWORN TO AND SUBSCRIBED before me this the 26 day of March 1956

(Notary Seal)

J. E. Phillips
Notary Public in and for Victoria County, Texas.

REMARKS: Location: Begin S.W. corner of lease N. 4100' along W. line and East at right angle 2100'. G. Roach Survey A-59.

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OIL & GAS DIVISION
AUSTIN, TEXAS

21553

Please Refer to File No._____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED R. C. OF TEXAS MAY 28 1965 O. G. SAN ANTONIO, TEXAS

Form 2A Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company Burch Spears, Inc. Address Box 3187, Vidtoria, Texas

Sec. No. -- Block No. -- Survey Garrett Roche A-59 County Bee

Well No. 2 Name of Lease Josephine Chesnutt No. of Acres 1470.15 Elev. 169.5

Name of Field in which well is located Medio Creek

Located 15 Miles Southeast Direction from Beeville, Texas (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Union Producing Company

Drilling Commenced June 1, 1953. Drilling Completed June 16, 1953

Has this well ever produced Oil? Yes, but not initially or Gas? Yes

Character of Well (Oil, Gas or Dry) Gas Total Depth 4869

Date you wish to Plug May 23, 1965.

Name of Party Plugging Well Mr. Burch Spears Address Box 3187, Victoria, Texas

Correspondence regarding this well should be sent to: Name Mr. Burch Spears

Address Box 3187, Victoria, Texas

Initial Production of Gas: Volume (MCF) 6,250 Mcf 24 hrs. Pressure 1760 lbs. per square inch

Initial Production of Oil: Barrels --

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Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks: Notification given by telephone and well plugged in accordance with directions issued by Railroad Commission Office, San Antonio, Texas

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Rotary Space	0	9.5	
Soil, Clay, Caliche	9.5	950	
Shale with Sand Streaks	950	1900	(From Electric Log)
~~Sand with Shale Streaks~~	1900	2620	
Shale	2620	2875	
Sand	2875	3435	
Shale	3435	3955	
Sand	3955	4055	
Shale	4055	4865	
Sand	4865	4869	Total Depth

Method of shutting off water Cementing Casing Is water completely shut off? Yes

Amount of water with oil — per cent —

I, Jack L. Slack, Agent

being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Jack L Slack

Representative of Company.

Subscribed and sworn to before me this 26 day of May, 1965

Betty J Gruben

Notary Public

Refugio County, Texas.

27553

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RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

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MAY 28 1965
O. G.
SAN ANTONIO, TEXAS

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Burch Spears, Inc. Address Box 3187, Victoria, Texas

Sec. No. -- Block No. -- Survey Garrett Roche A-59 County Bee

Well No. 2 Name of Lease Josephine Chesnutt No. of Acres 1470.15

Name of Field in which well is located Medio Creek Date well was plugged May 23, 1965

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of Union Producing Company

Character of Well at the time of completion: Oil -- bbls; Gas 6,250 Mcf Cu. Ft.; Dry --
(Initial Production) (Initial Production)

Amount well producing when plugged: Oil Trace bbls; Gas None Cu. Ft.; Water 100 bbls.

Has this well ever produced oil or gas? Yes

Total Depth 4869 feet. Top of each producing sand 4865 feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes.
Mud weighed 10.2 #/gallon.

How was mud applied? Circulated into place.

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? 200-foot cement plug laid in 5-1/2 caging from 4869 up to 4669. Mud weighing 10.2#/gal. left in 5-1/2" casing from 4669 up to ground level. 35' cement plug in top of 5-1/2 casing.

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
9-5/8	960.78	--	--	--	960.78	--	Howco Guide Shoe.
5-1/2	4857.69	--	--	--	4857.69	--	Howco Float Shoe.

Show depth found and thickness of all water, oil and gas formations 4865-69 was a gas sand. All sands from surface to 900' contain fresh water. All other sands contain saltwater.

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: Cementing Casing

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:
HUmble Oil and Refining Company, Wilson Tower, Corpus Christi, Texas
L. D. Thompson, Beeville, Texas
Ira Heard Estate, Refugio, Texas

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OIL & GAS DIVISION
AUSTIN, TEXAS

Was notice given before plugging to all available adjacent lease owners as required by Rule 1 Yes

I, Jack L. Slack, Agent, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name Jack L Slack, Title Agent

Subscribed and sworn to before me this 26 day of May, 1965

Betty J Greeber

Notary Public Refugio County, Texas

Correspondence regarding this well should be addressed to:

Name Burch Spears Address Box 3187, Victoria, Texas

MAP ID #4

API# 42-025-01546
DRY HOLE

4

Please Refer to File No. ..... Form 4

24444

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OIL AND GAS DIVISION

PLUGGING RECORD

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Guy I. Warren Address 802 Driscoll Bldg. Corpus Christi

Sec. No. ..... Blk. No. ..... Survey John Rosch 6-A County Bee

Well No. 1 Name of Lease Mrs. Josephine Chagoni No. of Acres 160

Name of Field in which well is located Wildcat Date Well was plugged Dec. 1, 1941

Character of Well (Whether it was Oil or Gas or Dry) Dry

Total Depth 5220 feet. Top of each producing sand None feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Pumped

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depths placed. Also amount of cement and rock.

Was well shot? No

Show depth found and thickness of all water, oil and gas formations See log

Manner of confining all oil, gas and water to strata:

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:

Was notice given before plugging to all available adjacent lease owners as required by Rule 10?

I, [illegible], being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Name J. E. Rexman Title Superintendent

Subscribed and sworn to before me this 2nd day of December, 1941

Alma M. Garrett Alma M. Garrett

Correspondence regarding this well should be addressed to: Notary Public Nueces County, Texas.

Name Guy I. Warren Address Corpus Christi, Texas

ET156-140—1938

025-01546

Form 2-A

Please Refer to File No.

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RAILROAD COMMISSION

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RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

APPLICATION TO PLUG AND WELL RECORD

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Name of Company or Operator Guy I. Warren Address 802 Driscoll Bldg. Corpus Christi, Tex.

County Bee Survey John Roach 6-A Blk. Sec.

Name of Farm or Lease Mrs. Josephine Chesnutt No. of Acres 160 Well No. 1

Located 11 Miles NE Direction from Skidmore (Nearest P. O. or Town)

Name of Field in which well is located Wildcat

Drilling Commenced October 5, 1941, Drilling Completed October 20, 1941,

Character of Well (Oil, Gas or Dry) Dry Total Depth 5320'

Date you wish to Plug December 1, 1941

Name of Party Plugging Well J. S. Fleming Address 802 Driscoll Bldg. Corpus Christi, Texas

Correspondence regarding this well should be sent to: Name Guy I. Warren

Address 802 Driscoll Bldg., Corpus Christi, Texas

CASING RECORD

Put in Well		Pulled Out		Left in Well			Packer or Shoe
Size	Ft.	In.	Ft.	In.	Ft.	In.	
10-3/4"	535	-	-	-	535	-	

IF CASING WAS CEMENTED GIVE NUMBER OF SACKS USED ON DIFFERENT STRINGS

Initial Production of Gas Volume MCF 24 hrs. Pressure lbs. per square inch

Initial Production of Oil Barrels

Give notice before Plugging to all available Lease Owners, as required by Rule 610.
When Plugging [illegible] Final Plugging Report, duly signed and sworn to. All necessary forms will be [illegible] by the Deputy Supervisor of district in which well is located.

NOTE: [illegible] information that can be obtained as to total depth, casing record, whether or not cemented, producing formation, water sands and as near as possible date well was drilled.

FILL OUT FORMATION RECORD AND AFFIDAVIT ON REVERSE SIDE

GUY A. WARREN

Chesnutt No. 1 Bell
Bee County, Texas

DRILLER: Carmox Drilling Company
Driscoll Building,
Corpus Christi, Texas

WELL COMMENCED: October 5, 1941

WELL COMPLETED: October 28, 1941

0-130	Shale & sand streaks
130-150	Sand
150-235	Shale
235-270	Sand - shale strks.
270-310	Shale
310-390	Sand - Shale strks.
390-408	Shale
408-425	Shale
425-535	Shale & sand
535-670	Shale and sand
670-760	Sand
760-785	Shale
785-912	Sand
912-947	Sticky shale
947-1021	Sand and shale
1021-1075	Sticky shale
1075-1163	Sandy shale with sticky streaks
1163-1211	Sticky shale and sand
1211-1295	Sandy shale and shale
1295-1411	Sandy shale with hard streaks of sand
1411-1490	Sand
1490-1532	Shale
1532-1636	sticky shale
1636-1664	Sand
1664-1762	Sticky shale
1762-1790	Shale and hard streaks
1790-1825	Sticky shale
1825-1895	Shale & sand
1895-1978	Broken sand w/hard strks.
1978-2060	Shale & sand
2060-2095	Sticky shale
2095-2139	Sand & shale
2139-2154	Sticky shale w/hard streaks
2154-2167	Shale
2167-2240	Sandy shale w/strks of hard sand
2240-2273	Shale & streaks of sand
2273-2301	Hard sand w/strks of shale
2301-2415	Shale - Strks hard sand
2415-2460	Sand w/hard strks of shale
2460-2485	Sticky shale & hard strks.
2485-2540	Sandy shale
2540-2570	Shale - sticky
2570-2627	Shale & hard strks.
2627-2758	Shale and hard strks.
2758-2770	Hard shale, sand strks.
2770-2863	Shale & Hard strks.
2863-2885	Sand
2885-2903	Shale
Core #1 2903-2917	No recovery -
" #2 2917-2925	6' recovery - Soft green sand very fine grain --no taste,
2925-2936	Sand - soft (color or odor.
2936-2946	Sand
" #3 2946-2954	4" recovery - Soft sand
2954-2962	Sand
2962-2965	Sticky shale
2965-2972	Sandy shale
2972-2991	Shale
2991-3010	Shale & sandy shale
3010-3115	Hard broken sand
3115-3102	Firm sand w/hard strks.
3102-3109	Hard sand (Rock)
3109-3145	Hard sand

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	3145-3148	Sand stone
	3148-3157	Soft sand
	3157-3162	Sand stone
	3162-3184	Soft sand
	3184-3240	Sand, shale w/hard strks.
	3240-3303	Soft sand
	3303-3398	Soft sand - hard strks.
	3398-3406	Hard shale
	3406-3457	Sandy shale
	3457-3504	Sand w/hard strks.
	3504-3510	Shale
	3510-3525	Shale
	3525-3580	Hard sandy shale strks hd. sand
	3580-3647	Hard sand & shale broken
	3647-3734	Shale w/hard strks.
	3734-3735	broken sand
	3735-3817	Sandy shale & shale hard strks.
	3817-3873	Sticky shale - hard strks.
	3873-3922	Sandy shale - strks of hard sand
	3922-3967	Shale & Hard strks.
	3967-3980	Shale & sandy shale
Core #4	3980-3987	Hard green shale)
	3987-3988	Hard grey shale) 8' recovery.
Core #5	3988-3996	Grey shale - sticky green streaks
" #6	3996-4004	6' recovery - - Gray sticky shale w/sandy strks.
" #7	4004-4012	8' recovery - 1' gray shale - 7' hd sdy sh - no permeability.
" #8	4012-4020	8' recovery - Gray sticky shale.
" #9	4020-4028	7' recovery - 4' hd & sticky shale - 1/2' soft fine grain sd, sli. oil odor. - 1/2' sticky shale - 1' gray sandy shale - faint dist. odor
" #10	4028-4034	3' recovery - Sticky green sh. Small strks. gray sd - faint odor.
" #11	4034-4042	8' recovery - 2' very hard gren sd oil odor - no permeability. - 6' very hd. gray sd no oil odor - no permeability. Streaks hard gray shale.
" #12	4042-4050	9' recovery - 2' hd. grey shale & hd sd. - 1' very firm sd oil odor. - 1' hard tight sd - no odor - 3' firm sand - low perm. nice oil color & odor - 1' very hard tight sand - no odor.
" #13	4050-4056	4' recovery - Very hard sandy shale - gray.
" #14	4056-4066	8' recovery - very hard shale w/sandy strks - no odor.
" #15	4066-4070	2" recovery - Very hard shale - grey.
" #16	4070-4078	7' recovery - Sandy shale - no odor
" #17	4078-4086	no recovery
" #18	4086-4094	3" recovery - Sandy shale - no odor
" #19	4094-4102	8" recovery - Sandy shale - no odor
	4102-4160	Hard sandy shale w/shale strks.
	4160-4175	Hard sandy shale w/shale strks.
	4175-4230	Hard shale sandy shale strks.
	4230-4300	Hard shale strks, hd. sand
	4300-4356	Shale
	4356-4371	Hard shale - hd. sand strks.
	4371-4394	Hard shale & lime broken
	4394-4410	Hard shale & lime broken
	4410-4456	Hard & sticky shale
	4456-4525	Hard shale & lime strks hd. sand
	4525-4569	Hard sticky shale & shell
	4569-4605	Hard shale & lime
	4605-4667	Hard & sticky shale.
	4667-4728	Hard shale & lime
	4728-4747	Hard shale strks. hd sand
	4747-4798	Hard shale & lime
	4798-4839	Hard & sticky shale
	4839-4847	Sand
	4847-4852	Sticky shale
	4852-4861	Sand
Core #20	4861-4869	Soft large grain sd - oil odor - 2' 3" recovery
" #21	4869-4877	Firm large grain sd - very faint oil odor s.w. taste - 5' rec.
" #22	4877-4882	Firm sdd large grain sand - salt water - 3' recovery.

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Guy I. Warren
Chesnutt #1 Well
Page #3

4882-4893	Sand
4893-4901	Shale
4901-4923	Hard sand - broken
4923-4969	Sand & hard strks.
4969-4972	Hard sand
4972-4990	Hard sand
4990-5011	Hard sand - shale strks.
5011-5020	Hard shale
5020-5062	Sand
5062-5069	Shale
5069-5084	Sand
5084-5102	Shale
5102-5110	Shale
5110-5178	Sandy shale & shale strks sand
5178-5195	Sandy shale strks shale & sand
5195-5220	Shale & sand strks.
D & A	

I hereby certify that the above and foregoing is a true and correct copy of the log of the Guy I. Warren-Chesnutt No. 1 Well, as taken from the original drilling reports.

CARMOS DRILLING COMPANY

By Jack Modesett Pres.

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OIL & GAS DIVISION

Please Refer to File No. ____ Form 1

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SEP 26 1941
RAILROAD COMMISSION

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

NOTICE OF INTENTION TO DRILL OR DEEPEN

IS THIS AN APPLICATION TO DRILL OR DEEPEN DRILL ?

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin operation on any location before filing Form 1, and do not begin operations on any location not conforming to the spacing rules for such location until you receive written order from the Commission granting permission.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distances from the proposed location to these wells. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 100 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 467 feet.

Nearest drilling, completed or applied for well on the same lease - feet.

This notice must be delivered to Deputy Supervisor of your District before drilling, or deepening, five full days prior to spudding in.

Date September 20, 19 41

Name of company or operator

Name Guy I. Warren

Address 808 Driscoll Building

City Corpus Christi, Texas

Description of farm or lease:

Name (Fee owner) Mrs. Josephine Chesnutt

Number of Acres 160 Well No. 1

Number of wells on lease none

Survey John Rough A-6

Elevation 150 D.F. Feet
(Above Sea Level)

Section No. - Block No. -

Located in Wildcat Field
(If Wildcat state above)

Bee County

11 miles NE direction from

Skidmore nearest postoffice or town.

Rotary or Cable Tools Rotary

Date work will start drilling Immediately

Depth to which you propose to drill 3200 feet.

Date work will start deepening -

If Lease Purchased with one or more wells drilled From Whom Purchased?

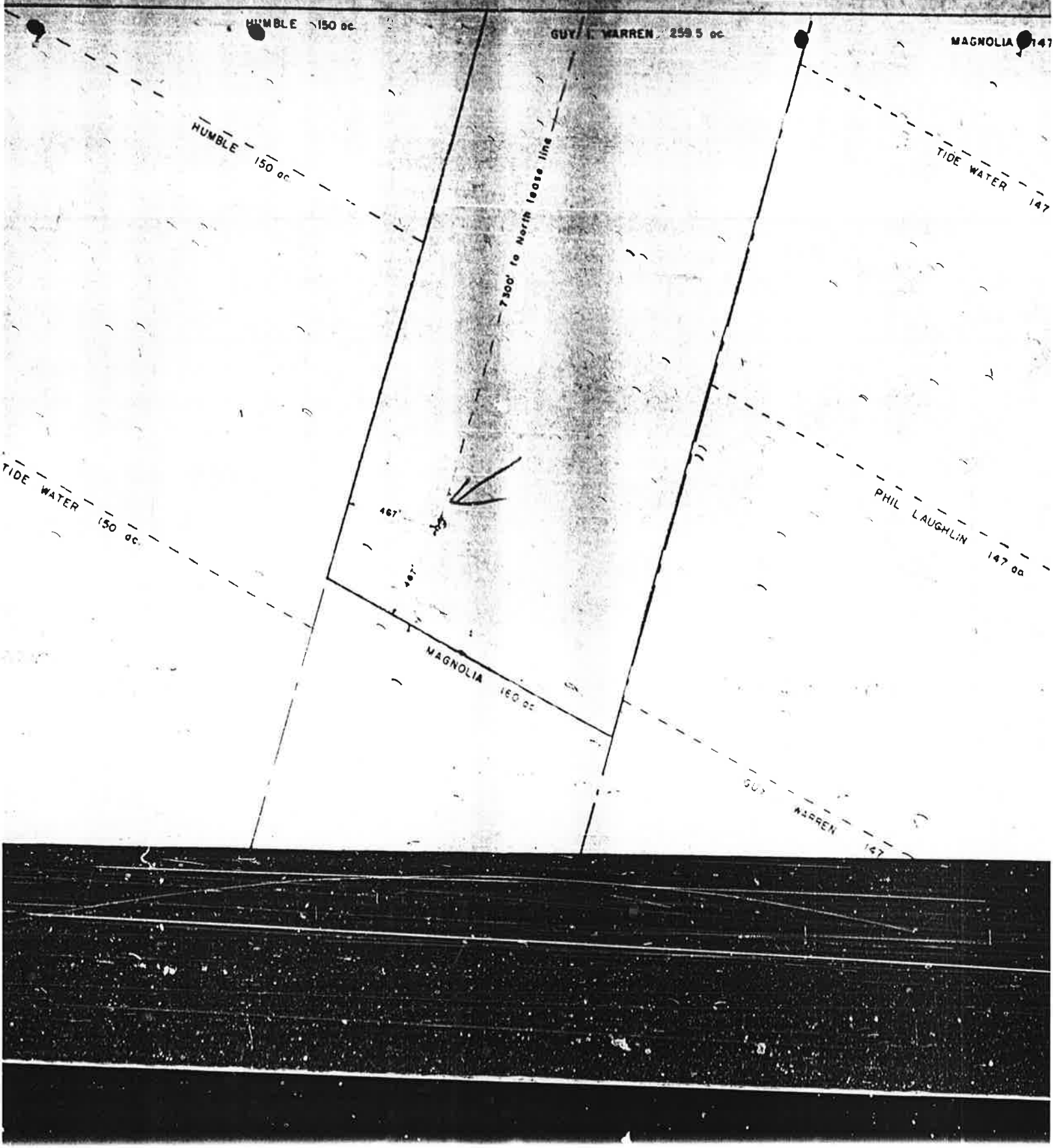
Name -

Address -

RECEIVED
SEP [illegible]
OIL & GAS DIV.

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE


HUMBLE 150 oc.
GUY L. WARREN 259.5 oc.
MAGNOLIA 147
HUMBLE 150 oc.
7300' to North lease line
TIDE WATER 147
TIDE WATER 150 oc.
467'
467'
PHIL LAUGHLIN 147 oc
MAGNOLIA 160 oc.
WARREN 147

MAP ID #5

API# 42-025-32770
GAS WELL
PLUGGED

Tomson Barrow #5

(5)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

API No (if available)	1 RRC District
42- 025 32770	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or ID Number: 161806

2 FIELD NAME (as per RRC records)	3 Lease Name	5 Well Number
Burkhollow, W. (1900)	Thomson-Barrow Corp.	5
6 OPERATOR	**6a Original Form W-1 filed in name of**	**10 County**
C & E Operating, Inc.		Bee
7 ADDRESS 345 Commerce Green Blvd. Sugar Land, Texas 77478	**6b Any subsequent W-1's filed in name of**	**11 Date Drilling Permit Issued** 5/30/96
8 Location of well, relative to nearest lease boundaries of lease on which this well is located	1174.0 feet from east line and 3209.0 feet from north line of the Thomson-Barrow Corp. lease.	**12 Permit Number** 448427 454254
9a SECTION, BLOCK and SURVEY John Roache A-60	**9b Distance and direction from nearest town in this county** 9.2 miles NE from Skidmore	**13 Date Drilling Commenced** 6/15/96

16 Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no 's	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14 Date Drilling Completed
gas	5372'	Burkes Ridge (2750)	159525	G	5	7/3/96
18 If gas, amt of cond on hand at time of plugging						15 Date Well Plugged 8/11/05

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19 Cementing Date	8-11-05	8-11-05	8-11-05					
20 Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2					
21 Depth to Bottom of Tubing or Drill Pipe (ft)	1320	750	13					
*22 Sacks of Cement Used (each plug)	30	15	5					
*23 Slurry Volume Pumped (cu ft)	35.4	17.7	5.9					
*24 Calculated Top of Plug (ft)	914	588	3					
25 Measured Top of Plug (if tagged) (ft)	948							
*26 Slurry Wt # / Gal	15.6	15.6	15.6					
*27 Type Cement	H	H	H					

28 CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft)	HOLE SIZE (in.)
8 5/8	24	632	628	12 1/4
4 1/2	10.5	2926	2922	7 7/8

29 Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material (Use reverse side of form if more space is needed)

RECEIVED
CENTRAL RECORDS
DEC 22 2005
AUSTIN, TEXAS

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	2759	TO	2761	FROM	TO
FROM	1779	TO	1782	FROM	TO
FROM	1606	TO	1613	FROM	TO
FROM	1323	TO	1332	FROM	TO
FROM		TO		FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator

Signature of Cementer or Authorized Representative

South Central Cementers
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Carol Fleming
REPRESENTATIVE OF COMPANY

Office Manager
TITLE

9/14/05
DATE

PHONE 361-741-3600
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING

FILED
SEP 21 '06
OIL & GAS DIVISION

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? ☒ Yes ☐ No	32 How was mud applied? Circulate	33. Mud Weight 10.0 LBS/GAL

34. Total Depth 5372 Depth of Deepest Fresh Water 1100	Other Fresh Water Zones by T.D.W.R. TOP 0 BOTTOM 700	35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☒ Yes ☐ No 36 If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well: South Central Cementers, P.O. Box 967, Beeville, Texas 78104

Date RRC District Office notified of plugging: 8/10/05

38 Name(s) and address(es) of surface owners of well site

Thomson-Barrow Corp.
6363 Woodway, Suite 630
Houston, Texas 77057

39. Was notice given before plugging to the above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42- 025-32770

7. RRC District No. 02

8 RRC Gas ID No. ~~159525~~ 161806

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

RECEIVED R.R.C. OF TEXAS FEB 10 1997 OIL & GAS DIVISION SAN ANTONIO, TEXAS

1. FIELD NAME (as per RRC Records or Wildcat): Burkhollow, W. (1900)

2. LEASE NAME: Thomson-Barrow Corp.

9. Well No. 5

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E OPerating, Inc.

RRC Operator No.

10. County of well site: Bee

4. ADDRESS: 13333 Southwest Freeway, # 105 Sugar Land, Texas 77478

11. Purpose of filing: Initial Potential [X] Retest [ ] Reclass [ ] Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): John Roache A-60

5b. Distance and direction to nearest town in this county: 9.2 miles NE of skidmore

6 If operator has changed within last 60 days, name former operator

12 If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Burkes Ridge (2750)	159525	G	5

13 Pipe Line Connection: NGPL

14. Completion or recompletion date: 1/13/97

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16 Type of Electric or other Log Run: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 1/15/97

Gas Measurement Method (Check One): Orifice Meter [X] Flange Taps [X] Pipe Taps [ ] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 50 MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.067	0.750	3587.12	315	58.0	80	0.9813	1.0042	1.0233	489
2	2.067	0.750	3587.12	315	30.0	80	0.9813	1.0042	1.0233	352
3	2.067	0.750	3587.12	315	13.0	80	0.9813	1.0042	1.0233	231
4	2.067	0.750	3587.12	315	4.0	80	0.9813	1.0042	1.0233	128

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.595	DRY Deg. API	DRY CF/Bbl	G_{mix} = 0.595	92.5 °F	110°F @ 1781 (Depth)

$D_{eff}^{8/3}$ = 6.310 $\quad \sqrt{T_f} = \sqrt{555} = 23.5584 \quad \sqrt{GL} = \sqrt{1059.695} = 32.553$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{1118 \times 6.310}{23.5584} = 299 \quad \frac{\sqrt{GL}}{C} = \frac{32.553}{299} = 1.089$

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_f RECEIVED CONFIDENTIAL JUN 02 1997	P_w/P_1
Shut-In			720	75	518				
1	60	12/64	620	80	384	53.3	2.8	622	0.9968
2	60	10/64	635	80	403	38.3	1.5	636	0.9984
3	60	8/64	650	79	423	25.2	0.6	651	0.9985
4	60	6/64	680	78	462	13.9	0.2	680	1.0000

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		0.0360	1.1043	1.0406	749	561	
1	0.9984	0.0357	1.0953	1.0399	647	419	142
2	0.9992	0.0358	1.0963	1.0400	661	437	124
3	0.9993	0.0358	1.0974	1.0401	677	458	103
4	1.0000	0.0358	1.0996	1.0402	707	500	61

Return to Records Retention

Angle of Slope: θ ..45..0..... n ....1..00.00...

Absolute Open Flow: ..1920.. MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester — TARGET WELL SERVICES, INC. Name of Company — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

HS Larry A. Boering — Signature: Operator's representative

President — Title

2/5/97 — Date

Tel 281/265-6500 A/C ____ Number ____

025 - 32770 RRC DIST. 02

VALID PERMIT
PRODUCTION ALLOCATION

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18. Permit to Drill, Plug Back or Deepen — DATE 10/24/96 — PERMIT NO. 454254
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 1/13/97 — Completed 1/13/97

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1174 Feet From east Line and 3209 Feet from north Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.)

26. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒ No

27. Top of Pay: 1779'

28. Total Depth: 5402'

29. P. B. Depth: 2620'

30. Surface Casing Determined by: Field Rules ☐ — Recommendation of T.D.W.R. ☐ — Railroad Commission (Special) ☒ — Dt. of Letter 6/10/96

31. Is well multiple completion? ☐ Yes ☒ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? ☐ Yes ☒ No

36. **CASING RECORD (Report All Strings Set in Well)**

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	632		275sx A	12 1/4	surface	443
4 1/2"	10.5	2926		600 sxA& H	7 7/8	surface	925

37. **LINER RECORD**

Size	TOP	Bottom	Sacks Cement	Screen

38. **TUBING RECORD**

Size	Depth Set	Packer Set
2 3/8"	1751'	1751'

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1779	To	1782
From		To	
From		To	
From		To	

40. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used
2759-61	Perforate 4 SPF
2620	CIBP
1779-82	Perforate 4 SPF

41. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth
Frio	3075'		
Vicksburg	5160'		

REMARKS

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office. Read Instructions on Back.

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42- 025-32770 Smc
Permit No. ~~448427~~ 454254
Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc. OK 10-23-96
3. RRC Operator No: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
953535

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.: 159525
8. Well No.: 5
9. Total Depth: 5650'

10. Location
• Section _____ Block _____ Survey John Roache Abstract No. A- 60
• This well is to be located 9.20 miles in a NE direction from Skidmore which is the nearest town in the county of the well site

11. Distance from proposed location to nearest lease or unit line: 1174 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 2800') 4001	2800'	467/1200	40	40	No	N/A	O/G	1	1
Burkhollow, W. (1900')	1800'	467/1200	40	40	No	N/A	G	1	1
13606500		Code A 1200							

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1174' FEL & 3209 FNL
• Survey/Section 1174 FEL & 17949 ~~FSL~~ (River)

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____

23. Is this a pooled unit? FS (River) L
Yes ☐ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
Yes ☐ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒
If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L Boening — Terry L. Boening, President
Signature — Name and title of operator's representative

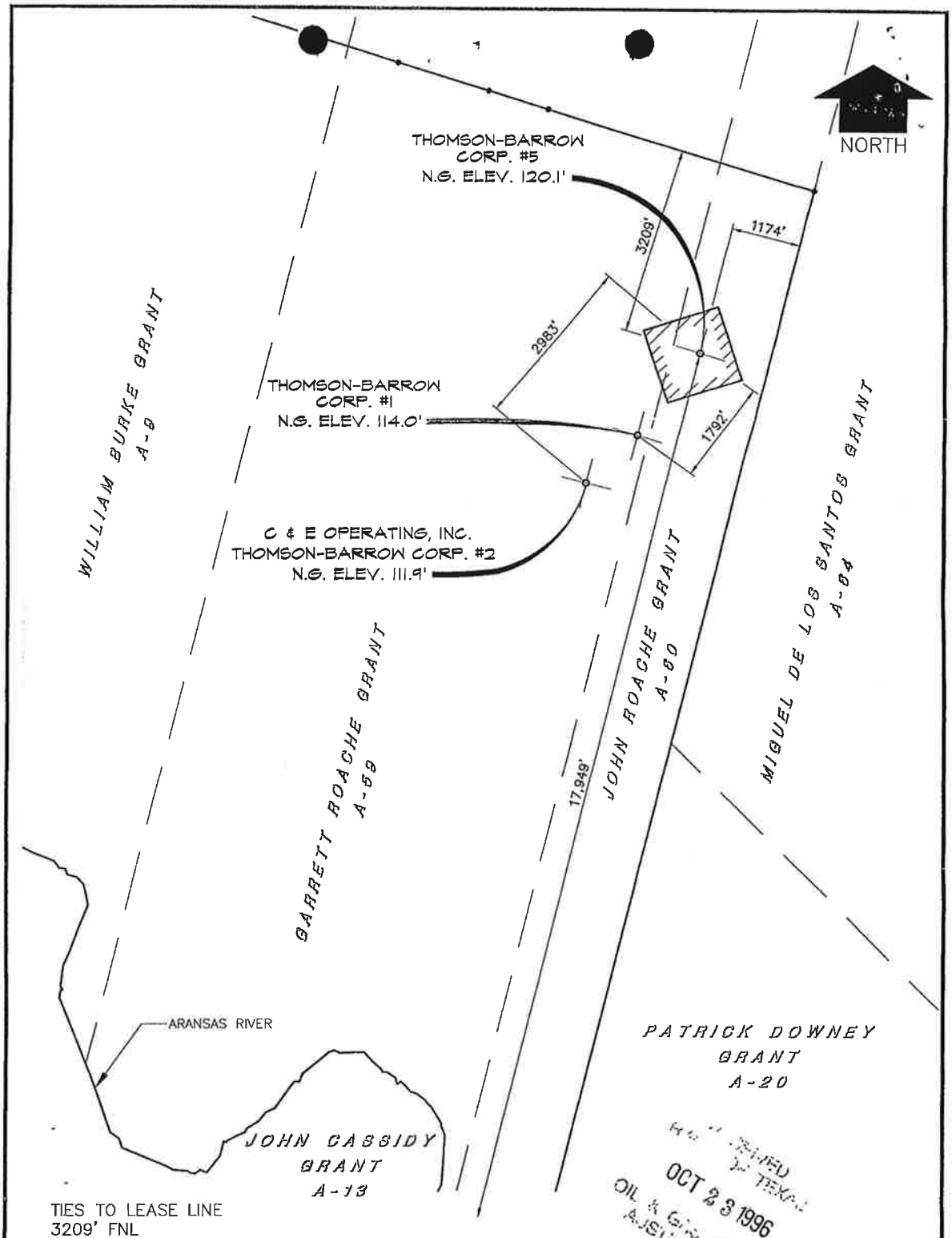
10/21/96 — 713/265-6500
Date: mo. day yr. — Tel.: Area Code Number

150 Appr
202430 OCT 2396

• RRC Use Only •

454254

025-32770



TIES TO LEASE LINE
3209' FNL
1174' FEL

TIES TO SURVEY LINES
17,949' FSL
1174' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
13,250'

RECEIVED
OCT 23 1996
OIL & GAS DIVISION
AUSTIN

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MAY 3, 1996, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde 5-17-96
REGISTERED PROFESSIONAL LAND SURVEYOR, TEXAS NO. 3589 — DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #5
JOHN ROACHE GRANT, A-60
BEE COUNTY, TEXAS

JOB No.: 9673-500
SCALE: 1" = 2000'
DATE: 5/96
DWN. BY: JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

NFD

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047 - #13551-925 NFD

API No 42-025-32770

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7 RRC District No: 02
8 RRC Gas ID No: 159525

1. FIELD NAME (as per RRC Records or Wildcat): BURKES RIDGE (2750)
2 LEASE NAME: Thomson-Barrow Corp.
9 Well No: 5
3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
RRC Operator No: 120079
10 County of well site: Bee
4 ADDRESS: 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
11 Purpose of filing: Initial Potential [X]; Retest [ ]; Reclass [ ]; Well record only (Explain in remarks) [ ]
5. Location (Section, Block, and Survey): John Roache A-60
5b Distance and direction to nearest town in this county: 9.2 miles NE from Skidmore
6 If operator has changed within last 60 days, name former operator:
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil—O Gas—G / WELL #:
13 Pipe Line Connection: NGPL
14 Completion or recompletion date: 07/03/96
15 Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No
16 Type of Electric or other Log Run: Ind/Neu/Den

RECEIVED R.R.C. OF TEXAS JUL 22 1996 O.G. SAN ANTONIO, TX

8-2-95 C. Meeker

Section I — GAS MEASUREMENT DATA

Date of Test: 07/03/1996
Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ]; Positive Choke [X]; Orifice Vent Meter [ ]; Pitot Tube [ ]; Critical-flow Prover [ ]
Gas produced during test: 87 MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		12/64	0.802	1015		85.0	0.9768	1.0084	1.0728	860
2		10/64	0.553	1035		85.0	0.9768	1.0084	1.0742	606
3		8/64	0.347	1055		85.0	0.9768	1.0084	1.0756	388
4		6/64	0.203	1075		85.0	0.9768	1.0084	1.0769	232

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas): 0.590
Gravity Liquid Hydrocarbon: Deg. API
Gas-Liquid Hydro Ratio: CF/Bbl
Gravity of Mixture G_{mix} = 0.590
Avg Shut-In Temp: 103 ^oF
Bottom Hole Temp: 122 ^oF @ 2760 (Depth)

$D_{eff}^{8/3}$ = 6.307
$\sqrt{T_f} = \sqrt{563.500}$ = 23.738
$\sqrt{GL} = \sqrt{1628.400}$ = 40.353
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 297.059
$\frac{\sqrt{GL}}{C}$ = RECORD CODIFICATION 0.136

NOV 5 1996

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp ^oF	P_w^2 (Thousands)	R	R^2 (Thousands)		P_w/P_1
Shut-In			1225	84.0	1501				
1	60	12/64	1015	85.0	1030	116.8	13.6	1021.7	0.9934
2	60	10/64	1035	85.0	1071	82.3	6.8	1038.3	0.9969
3	60	8/64	1055	85.0	1113	52.7	2.8	1056.3	0.9988
4	60	6/64	1075	85.0	1156	31.5	1.0	1075.5	0.9996

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0542	1.1639	1.0651	1305	1703.0	
1	0.9967	0.0540	1.1510	1.0641	1087	1182.0	521.0
2	0.9984	0.0541	1.1521	1.0643	1105	1221.1	481.9
3	0.9994	0.0541	1.1533	1.0644	1124	1264.2	438.8
4	0.9998	0.0542	1.1545	1.0645	1145	1310.7	392.3

Angle of Slope
θ ..... 45.00 .....
n ..... 1.0000 .....
Absolute Open Flow
2811 ..... MCF/DAY

RECEIVED R.R.C. OF TEXAS

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester — DAWSON PRODUCTION SERVICES, INC. (Name of Company) — RRC Representative

Return to Records Retention

JUL 26 1996
AUSTIN, TEXAS

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Sherry L. Barnes — President — 7/16/96 — Tel 713/265-6500
Signature: Operator's representative — Title — Date — A/C Number

#5 025-32770

VALID PERMIT
PRODUCTION ALLOCATION
AUG 12 1996

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 05/30/96 — PERMIT NO. 448427
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 6/16/96 | Completed 07/03/96

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1174 Feet From East Line and 3209 Feet from North Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 120

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: 2759'

28. Total Depth: 5402'

29. P. B. Depth: 2881'

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] Dt. of Letter 6/10/96

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X | Cable Tools

34. Name of Drilling Contractor: Corpus Chrsiti Drlg.

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL cu. ft.
8-5/8"	24	632		275 sx A	12-1/4"	surface	443
4-1/2"	10.5	2926		600 sx A & H	7-7/8"	surface	925

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8"	2693'	2693'

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From		To	
From	2759	To	2761
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
2759-2761'	Perforated

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	3075'		
Vicksburg	5160'		

REMARKS

MAP ID #6

API# 42-025-33756
DRY HOLE

025-33756

BAKER HUGHES

Baker Atlas

HIGH DEFINITION INDUCTION LOG SM
COMPENSATED Z-DENSILOG SM
COMPENSATED NEUTRON LOG
GAMMA RAY LOG

15

FILE NO: 10234	COMPANY	MEGO RESOURCES
	WELL	SASSER #5
API NO: 42-025-33756	FIELD	WILDCAT
	COUNTY	BEE D-02 STATE TEXAS

Ver. 3.87
FINAL PRINT

ARROW 7

LOCATION:
3677' FNWL & 3824' FSWL OF LEASE
200' FNWL & 6361.3' NE (CREEK)
ROACHE, J SURVEY
A-60

OTHER SERVICES
VPC
SWC

PERMANENT DATUM	GL	ELEVATION	122.7 FT
LOG MEASURED FROM	KB	10 FT	ABOVE P.D.
DRILL. MEAS. FROM	KB		

ELEVATIONS:
KB 132.7 FT
DF 131.7 FT
GL 122.7 FT

DATE		03-May-2011		
RUN	TRIP	1	1	
SERVICE ORDER		602295		
DEPTH DRILLER		5190 FT		
DEPTH LOGGER		5191 FT		
BOTTOM LOGGED INTERVAL		5183 FT		
TOP LOGGED INTERVAL		840 FT		
CASING DRILLER		8.625 IN	@840 FT	@
CASING LOGGER		840 FT		
BIT SIZE		7.875 IN		
TYPE OF FLUID IN HOLE		WBM		
DENSITY	VISCOSITY	10.1 LB/G	42 S	
PH	FLUID LOSS	10.0	5.0 C3	
SOURCE OF SAMPLE		FLOWLINE		
RM AT MEAS. TEMP.		3.868 OHMM	@75 DEGF	@
RMF AT MEAS. TEMP.		3.017 OHMM	@75 DEGF	@
RMC AT MEAS. TEMP.		4.835 OHMM	@75 DEGF	@
SOURCE OF RMF	RMC	M	C	
RM AT BHT		2.123 OHMM	@142.4 DEGF	@
TIME SINCE CIRCULATION		7.5 HOURS		
MAX. RECORDED TEMP.		142.4 DEGF		
EQUIP. NO.	LOCATION	HL-6730	ALICE, TX	
RECORDED BY		Y. VLACK		
WITNESSED BY		TAYLOR/BRAUGH/MITCHELL		

RECEIVED
OIL & GAS DIV.
STATE OF TEXAS
OBG
AUSTIN TX

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

RUN 1 TRIP 1 : BVOL = TOTAL BOREHOLE VOLUME
CVOL = TOTAL CEMENT VOLUME, BASED ON 4.5" CASING

DENSITY MATRIX = SANDSTONE, 2.65 G/CC
NEUTRON MATRIX = SANDSTONE, 1200 PPM SALINITY

THANK YOU FOR CHOOSING BAKER ATLAS!!
HL-6730 CREW: Y. VLACK, S. DELEON, W. LYNCH

EQUIPMENT DATA

API No.

Application Status # 714829

SWR Exception Case/Docket No.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

FORM W-1 07/2004

Permit Status: As Submitted

The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.

1. RRC Operator No.	2. Operator's Name (as shown on form P-5, Organization Report)	3. Operator Address (include street, city, state, zip):
559362	MEGO RESOURCES, LLC	1229 FM 889 GEORGE WEST, TX 78022

4. Lease Name	5. Well No.
SASSER	5

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [ ] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth: 5400

9. Do you have the right to develop the minerals under any right-of-way ? [X] Yes [ ] No

10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? [ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.: 02

12. County: BEE

13. Surface Location [X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 10 miles in a NE direction from Skidmore which is the nearest town in the county of the well site.

15. Section	16. Block	17. Survey	18. Abstract No.	19. Distance to nearest lease line:	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
		ROACHE, J	A-60	3677 ft.	5300

21. Lease Perpendiculars: 3677 ft from the NW line and 3824 ft from the SW line.

22. Survey Perpendiculars: 200 ft from the NW line and 6361.3 ft from the NE (CREEK) line.

23. Is this a pooled unit? [ ] Yes [X] No

24. Unitization Docket No:

25. Are you applying for Substandard Acreage Field? [ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	00004001	WILDCAT	Oil or Gas Well	5400	3266.70	2
02	40032396	HEARD RANCH (3500)	Gas Well	3500	0.00	1
02	40032132	HEARD RANCH (FRIO Z)	Gas Well	4800	0.00	1
02	40032792	HEARD RANCH (4300)	Oil or Gas Well	4300	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks

Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

Kyle Grant — Name of filer

Apr 22, 2011 — Date submitted

(512)4783456 — Phone

kyle@milconinc.com — E-mail Address (OPTIONAL)

RRC Use Only Data Validation Time Stamp: Apr 22, 2011 11:12 AM('As Submitted' Version)

RRC ONLINE SYSTEM

Log In

Form W-1: Review

Status # 714829 **API #** 025-33756	**OP # 559362 - MEGO RESOURCES, LLC** Approved ,**Issued:** 04/28/2011 ,**Filed:** Online	**SASSER - Well # 5** 02 - BEE County	**New Drill** Vertical

Status:

Back to Public Query Search Results

View Current W-1 View Current Permit

Completion Information

Well Status Code	Spud Date	Drilling Completed	Surface Casing Date
D - Dry hole	05/04/2011	05/04/2011	05/04/2011

General / Location Information

Basic Information:

Filing Purpose	Welbore Profiles	Lease Name	Well #	SWR	Total Depth	Horizontal Wellbore	Stacked Lateral Status #
New Drill	Vertical	SASSER	5		5400		

Surface Location Information:

API #	Distance from Nearest Town	Direction from Nearest Town	Nearest Town	Surface Location Type
025-33756	10.0 miles	NE	Skidmore	Land

Survey/Legal Location Information:

Section	Block	Survey	Abstract #	County
		ROACHE, J	60	BEE

Perpendicular surface location from two nearest designated lines:

Perpendiculars	Distance	Direction	Distance	Direction
Survey Perpendiculars	200.0 feet	from the NW line and	6361.3 feet	from the NE (Creek) line

Fields

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to nearest well	Distance to nearest Lease Line	SWR	Pooled/Unitized

02	**WILDCAT** **Primary Field**	00004001	5400	SASSER	5	Oil or Gas Well	5300.0	3266.7	3677.0		N

Perpendiculars	**Distance**	**Direction**	**Distance**	**Direction**
Surface Lease Lines	3677.0 feet	from the NW line and	3824.0 feet	from the SW line

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to nearest well	Distance to nearest Lease Line	SWR	Pooled/Unitized
02	**HEARD RANCH (FRIO Z)**	40032132	4800	SASSER	5	Gas Well	5300.0		3677.0		N

Perpendiculars	**Distance**	**Direction**	**Distance**	**Direction**
Surface Lease Lines	3677.0 feet	from the NW line and	3824.0 feet	from the SW line

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to nearest well	Distance to nearest Lease Line	SWR	Pooled/Unitized
02	**HEARD RANCH (3500)**	40032396	3500	SASSER	5	Gas Well	5300.0		3677.0		N

Perpendiculars	**Distance**	**Direction**	**Distance**	**Direction**
Surface Lease Lines	3677.0 feet	from the NW line and	3824.0 feet	from the SW line

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to nearest well	Distance to nearest Lease Line	SWR	Pooled/Unitized
02	**HEARD RANCH (4300)**	40032792	4300	SASSER	5	Oil or Gas Well	5300.0		3677.0		N

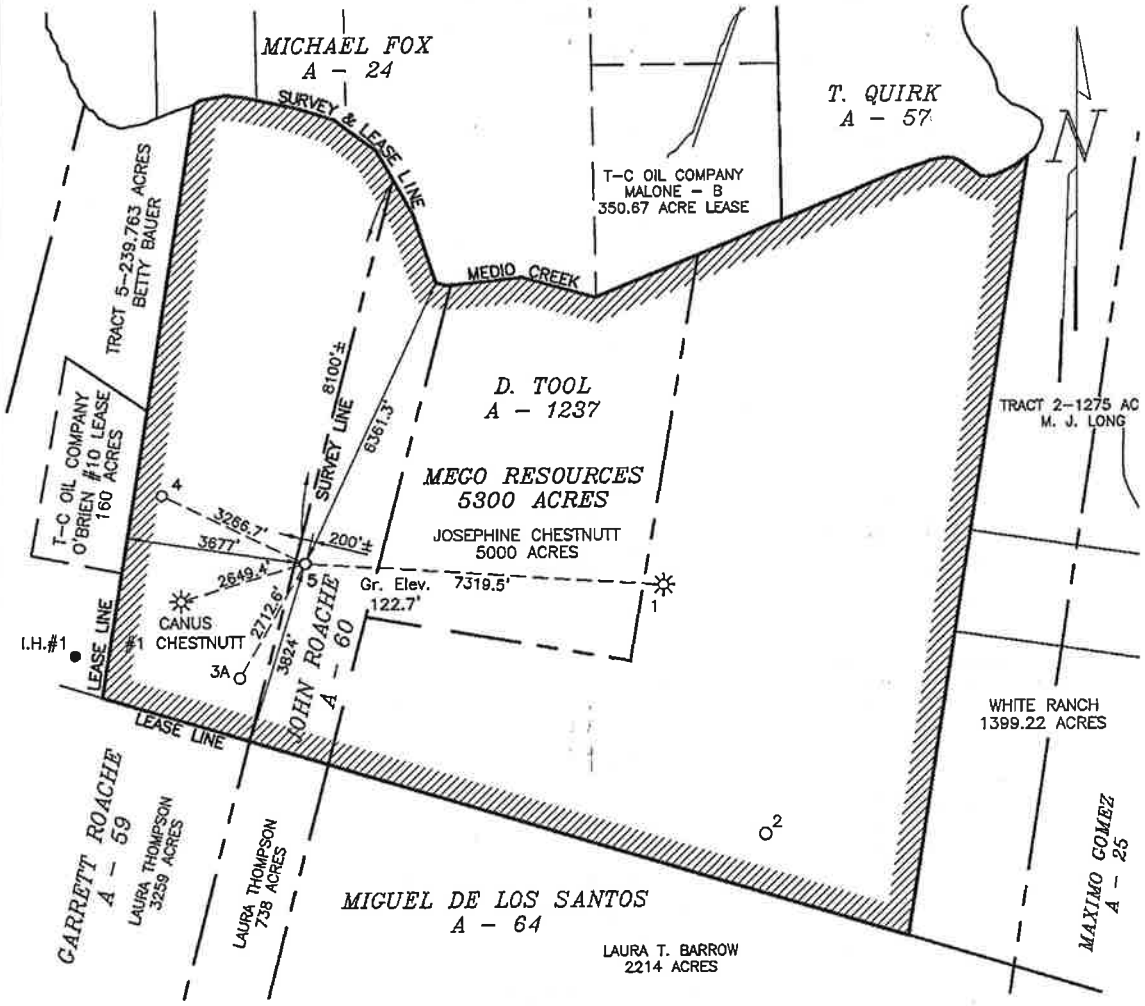
Perpendiculars	**Distance**	**Direction**	**Distance**	**Direction**
Surface Lease Lines	3677.0 feet	from the NW line and	3824.0 feet	from the SW line

Attachments

Attachment Type	File Path	Associated Fields and/or Plats
As Approved W-1	AsApprovedW1-4-28-2011.pdf	
As Approved Permit	AsApprovedPermit-4-28-2011.pdf	
PLAT #1(**Paper Size : LGL**)	Sasser Well No. 5.tif	HEARD RANCH (FRIO Z) WILDCAT HEARD RANCH (4300) HEARD RANCH (3500)

As Submitted W-1	AsSubmittedW1-4-22-2011.pdf	

Disclaimer | RRC Online Home | RRC Home | Contact



MEGO RESOURCES – SASSER – WELL NO. 5 X: 2476269.55, Y: 176628.88 NAD 27, Texas South Central Zone. Is located 3677' from the west lease line and 3824' from the south lease line, and 200'± from the west survey line and 6361.3' from the north survey line and lease line.

Location is approximately 10 miles northeast of the town of Skidmore.

There may be existing pipelines not shown on this plat. Use the Texas One Call System to locate pipelines before performing any excavation on this property.

PLAT SHOWING LOCATION MADE FOR
MEGO RESOURCES
SASSER – WELL NO. 5
OUT OF THE
JOHN ROACHE SURVEY, ABSTRACT 60
BEE COUNTY, TEXAS
SCALE 1" = 3000 FEET

This plat meets the requirements for filing a well location plat with the Texas Railroad Commission and is intended solely for that purpose. This plat is not intended to represent a boundary survey and does not meet the requirements for boundary surveys in the State of Texas, Prepared this the 20th day of April, 2011.

King & Petrus, Inc.
P. O. Box 606
Sinton, Texas 78387
Phone 361–364–2622
Fax 361–364–2641
C:\DCF\20700\20734
C:\MAPDATA\DATA\WHITING\WAS

STATE OF TEXAS
REGISTERED
J. L. PETRUS JR.
1907
PROFESSIONAL
LAND SURVEYOR

Registered Prof. Land Surveyor
Texas Registration No. 1907

MAP ID #7

API# 42-025-01554
DRY HOLE

(7)

Please Refer to
File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company James G. McCarrick Address 505 Alamo National Building San Antonio 5, Texas

Sec. No. _____ Block No. A-1237 Survey Dominique Toole County Bee

Well No. 1 Name of Lease Josephine Chessnut No. of Acres 500

Name of Field in which well is located Wildcat Date well was plugged Oct. 1, 19 53

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of James G. McCarrick

Character of Well at the time of completion: Oil No bbls; Gas No Cu. Ft.; Dry Yes
(Initial Production) (Initial Production)

Amount well producing when plugged: Oil None bbls; Gas None Cu. Ft.; Water None bbls.

Has this well ever produced oil or gas? No

Total Depth 1012 feet. Top of each producing sand None feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Rig Pump

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? No- Set 1008' 10-3/4" casing- Plugged well with 50 sacks cement at 1350' and 50 sacks at 1008'- Put swage nipple with valve on top of casing.

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
10-3/4"	1008	-	None	None	1008	-	

Show depth found and thickness of all water, oil and gas formations None

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: Casing, mud and cement

The names of adjacent lease, royalty and landowners with their addresses and depths drilled are as follows:

Union Producing Company
Houston, Texas

Josephine Chessnut
Beeville, Texas

RECEIVED
OCT 8 1953
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Was notice given before plugging to all available adjacent lease owners by mail? Yes

I, J. A. Scocina, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name J. A. Scocina Title Agent

Subscribed and sworn to before me this 7th day of October, 1953

Lula E. Bredel
Notary Public Bexar County, Texas

Correspondence regarding this well should be addressed to:

Name ~~J. A. Scocina~~ Address ~~505 Alamo National Building~~ San Antonio 5, Texas

025-01554

Please Refer to File No. 22243

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company James G. McCarrick Address 505 Alamo National Building San Antonio 5, Texas

Sec. No. ____ Block No. A-1237 Survey Dominique Toolo County Bee

Well No. 1 Name of Lease Josephine Chesnut No. of Acres 500 Elev. 121'

Name of Field in which well is located Wildcat

Located 15-1/2 Miles SE Direction from Beeville, Texas (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of James G. McCarrick

Drilling Commenced September 13, 1953. Drilling Completed September 30, 1953

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 5512

Date you wish to Plug October 1, 1953.

Name of Party Plugging Well Halliburton Address Refugio, Texas

Correspondence regarding this well should be sent to: Name J. A. Scecina

Address 505 Alamo National Building- San Antonio 5, Texas

Initial Production of Gas: Volume (MCF) None 24 hrs. Pressure None lbs. per square inch

Initial Production of Oil: Barrels None

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks: ____

RECEIVED
OCT 8 1953
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

DR

Operator: James G. McCarrick
Lease: Josephine Chesnutt et al
Well: No. 1
Location: In Dominique Toole survey, Bee County, Texas, approximately 15 1/2 miles S.E. of Beeville, Texas
Commenced: September 13, 1953
Completed: September 30, 1953

Core	From	To	Formation
	0	70	Gravel
	70	501	Caliche
	501	986	Caliche, shale and clay
	986	1224	Clay
	1224	2840	Shale
	2840	3155	Shale and sand
	3155	3232	Shale and limestone streaks
	3232	3300	Sand and shale streaks
	3300	3616	Shale
	3616	3781	Sticky shale
	3781	3969	Shale
	3969	4078	Hard shale
1	4078	4083	Hard green shale
2	4083	4088	Hard green shale
3	4088	4093	Green shale
4	4093	4102	Green and white shale
5	4102	4109	Green shale w/sandy shale streaks
6	4109	4118	Green shale
7	4118	4124	Green shale
8	4124	4133	Green shale
9	4133	4138	Green shale - sandy shale streaks
10	4138	4143	Green shale
11	4143	4148	Green shale
12	4148	4152	Green shale
	4152	4410	Shale
13	4410	4415	Green shale
14	4415	4425	Green shale
15	4425	4435	Green shale
16	4435	4445	Green shale
17	4445	4450	Green shale
	4450	4754	Shale
18	4754	4759	Green shale
19	4759	4767	Green shale w/sandy streaks
20	4767	4772	Green shale
21	4772	4777	Green shale
22	4777	4782	Shale
23	4782	4787	Shaly sand w/oil odor
24	4787	4790	Green shale
25	4790	4792	Green shale
26	4792	4797	Green shale
	4797	4911	Shale
27	4911	4912	Sand stone - very hard
28	4912	4913	Sand stone - very hard
29	4913	4918	Shale and sand streaks
	4918	5064	Shale and sand streaks
	5064	5097	Rock and shale
	5097	5149	Shale and sand
	5149	5221	Shale
	5221	5514	Sticky shale

RECEIVED
OCT 8 1953
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

FORTH JEXAS
OIL & GAS DIVISION
OCT 13 1953
RECEIVED

State of Texas()
County of Jim Wells()

I, Bruce B. Newton, do certify that the above log of the James G. McCarrick No. 1 Josephine Chesnutt et al has been prepared in the office of Flournoy Drilling Company under my supervision from the daily drilling reports of said well, and that the same is a true and correct statement of the data as revealed by daily drilling reports which to the best of my knowledge and belief are true and correct.

Bruce B. Newton

Subscribed and sworn to before me this 5th day of October, 1953.

Alpha Ray Hinnant

ALPHA RAY HINNANT
Notary Public, Jim Wells County, Texas

CEMENTING AFFIDAVIT

I, R.L.Montgomery, being of lawful age and having full knowledge of the facts herein below set out do state:

That I am employed by the HALLIBURTON OIL WELL CEMENTING COMPANY in the capacity of Cementer, and that on October 1, 19 53, I personally cemented the Plug to Abandon of hole of casing for the James O.Mc Carrick, Chestnut lease, well # 1, in the Wildcat field, under the direction and supervision and control of the Agent of James O.Mc Carrick and that 100 ~~1st plug from 1350 to 1250 in 9 7/8 hole~~ Plug to abn. 2nd plug from 1008 to 908 in 9 7/8 hole & 10 3/4 Csg. in the cementing of said

STATE OF TEXAS)
COUNTY OF Refugio)

Before me the undersigned authority, on this day personally appeared R.L.Montgomery known to be the person whose name is subscribed to this instrument, who after being by me duly sworn to oath, states that he has knowledge of all the facts herein recited.

R. L. Montgomery

Subscribed and sworn to before me on this the 1st day of October 19 53

L E Denney

Notary Public in and for Refugio County Texas

RECEIVED
OCT 8 1953
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

Please refer to File No.....

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1

22243

APPLICATION TO DRILL OR DEEPEN

IS THIS AN APPLICATION TO DRILL OR DEEPEN drill ?

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines.. Also show the nearest wells on all sides of of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to ~~XXXXXXXXX~~ lease line...467.....feet.

Distance from proposed location to nearest drilling completed, or applied for well on same lease..0.....feet.

Date..September 11,..... 1953....

Name of company or operator

Name.James G. McCarrick.....

Address.505 Alamo National Building....

City....San Antonio,..Texas.....

Description of farm or lease:

Name of Lease..Josephine Chesnutt et al.

Number of Acres.500.....Well No...1.....

Number of wells on lease.none.....

Survey Dominique Toole

Elevation....121.....Feet
(ABOVE SEA LEVEL)

Section No.....Block No.....

Located in..~~XX~~ Wildcat.....Field

(If Wildcat state above)

.....Bee.....County

.....15-1/2.....Miles..SE.....direction from

Beeville.....nearest postoffice or town.

Rotary or Cable Tools....Rotary.....

Date work will start drilling...9/22/53.....

Depth to which you propose to drill.5600....feet.

Date work will start deepening.....

IF LEASE PRUCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name.....

Address.....

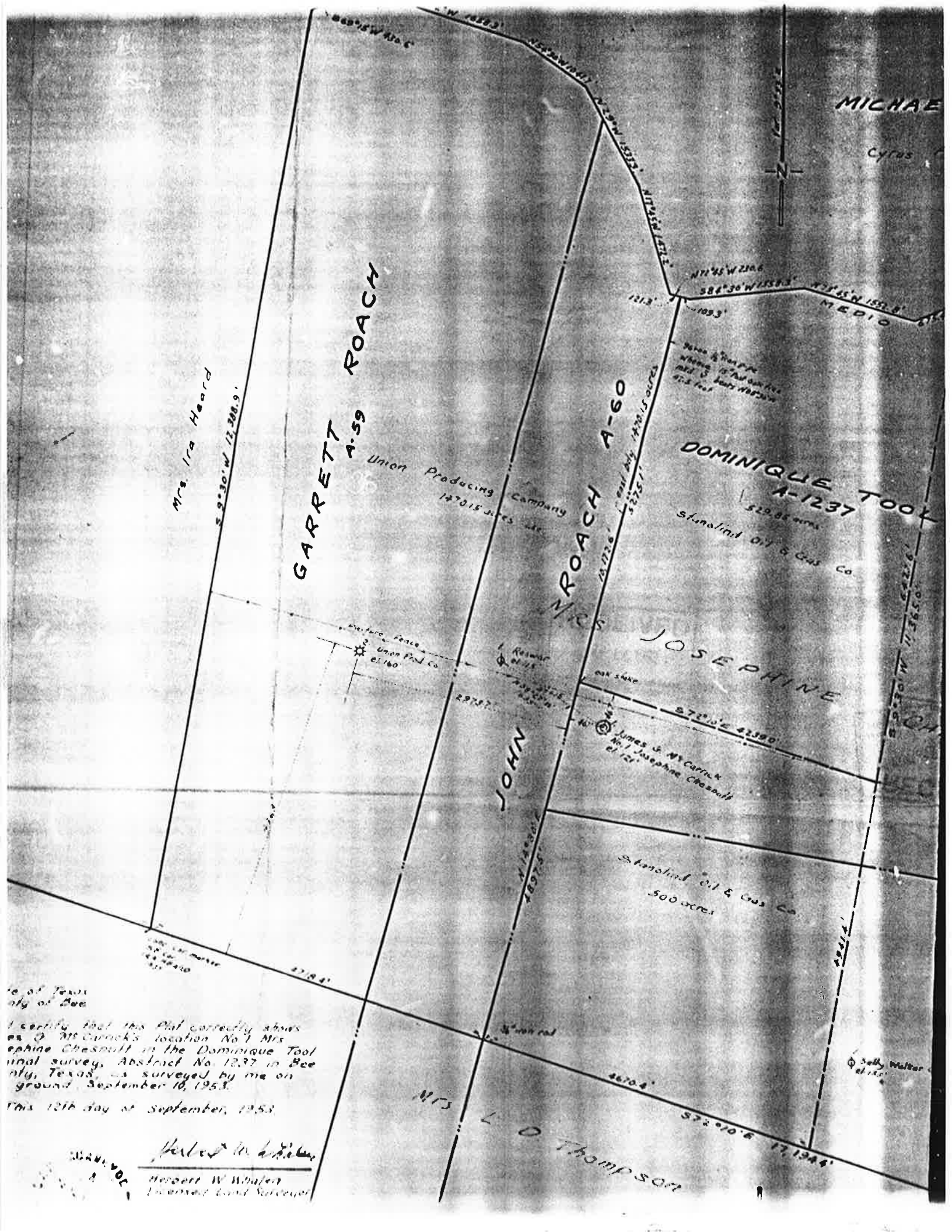
RECEIVED
SEP 14 1953
Railroad Commission of Texas
OIL AND GAS DIVISION
REFUGIO, TEXAS

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

SEP 16 1953

RECEIVED



...e of Texas
...nty of Bee

...l certify that this Plat correctly shows ...es & McCarrick's location No. 1 Mrs ...ephine Chesnutt in the Dominique Tool ...inal survey, Abstract No. 1237 in Bee ...nty, Texas, as surveyed by me on ...ground September 10, 1953.

This 12th day of September, 1953.

MAP ID #8

API# 42-025-30335
DRY HOLE

(8)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9-1-67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id. Number: --

2 FIELD NAME (as per RRC Records): Wildcat above 5300

3 LEASE NAME: Chestnutt

5 Well Number: 1

6 OPERATOR: Varn Petroleum Company

10 County: Bee

7 ADDRESS: 900 The 600 Building, Corpus Christi, TX 78401

11 Date Drilling Permit Issued: 10-24-74

8 SURFACE LOCATION: 1440 FEET FROM southwest LINE, AND 467 FEET FROM northwest LINE

12 Date Drilling Commenced: 12-31-74

9 SECTION, BLOCK, AND SURVEY: Dominique Tool Survey A-1237

13 Date Drilling Completed: 1-13-75

15 Type of Well (Oil, Gas, Dry *): Dry

16 Type of Completion (Single, Dual, Etc.): --

17 Total Depth: 5305'

14 Date Well Plugged: 1-13-75

18 FORM W-1 (Intention To Drill) Filed in Name of: Varn Petroleum Company

19 Manner of Placement

PLUG #1	35	SACKS	TOP	1450'	BOTTOM	1550'	TYPE	--
PLUG #2	35	SACKS	TOP	376'	BOTTOM	476'	TYPE	--
PLUG #3	5	SACKS	TOP	0	BOTTOM	10'	TYPE	--
PLUG #4		SACKS	TOP		BOTTOM		TYPE	

20 Was Well Filled with Mud Laden Fluid according to the regulations of the Railroad Commission: YES X NO

21 How was Mud applied? Rig pump

22 Mud Weight: -- LBS/GAL

23 Depth of Deepest Fresh Water: 1500 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO

25 If NO, Explain: --

26 Name and Address of Party Plugging Well: Halliburton Services, Rt 6, Box 452, Victoria, TX 77901

27 Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	424	--	424	--

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: Mr. Samuel D. Chesnutt, 302 South Fifth St., Kenedy, TX 78119

29 Was Notice given before Plugging to each of the above and RRC District Office? YES X NO

RECEIVED R.R.C. OF TEXAS MAR 13 1975 O.G.

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

Helene Hoelter — REPRESENTATIVE OF COMPANY

Helene Hoelter — Production Clerk — TITLE — 3/6/75 — DATE

RECEIVED R.R.C. OF TEXAS MAR 07 1975

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

025 30 335

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Wildcat	*2. RRC District: 2
*3. Operator: Varn Petroleum Company	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Chestnutt	*6. Well Number: 1
*7. Location (Section, Block, and Survey): Dominique Tool Survey A-1237	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	1/2/75					
*9. (a) Size of Drill Bit (inches)	12 1/4					
(b) Estimated Max. % Hole Enlargement Used in Calculations	--					
*10. Size of Casing (inches O.D.)	8 5/8					
*11. Top of Liner (if liner used) (ft.)	--					
*12. Setting Depth of Casing (ft.)	424					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) Slurry (Use additional space if needed, see "REMARKS" on reverse side.)	H 4%gel 3%CaCl2					
(b) In Second Slurry	--					
(c) In Third Slurry	--					
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	220					
(b) In Second Slurry	--					
(c) In Third Slurry	--					
(d) Total Sacks of Cement Used	220					
15. Slurry Volume per Sack of Cement (cubic feet): (a) In First (Lead) or Only Slurry	1.55					
(b) In Second Slurry	--					
(c) In Third Slurry	--					
16. Volume of Slurry Pumped (cu. ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry	341					
(b) In Second Slurry	--					
(c) In Third Slurry	--					
(d) Total Volume of Slurry Pumped (cu. ft.)	341					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	surface					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	YES					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	1/13/75	1/13/75	1/13/75			
*20. Size of Hole or Pipe in which Plug Placed (inches)	7 7/8	8 5/8	8 5/8			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1550	476	10			
22. Sacks of Cement Used (each plug)	35	35	5			
23. Slurry Volume Pumped (cubic feet)	41.3	41.3				
24. Calculated Top of Plug (ft.)	1450	376				
*25. Measured Top of Plug (if tagged) (ft.)	--	--	--			

RECEIVED R.R.C. OF TEXAS MAR 07 1975
APPROVED R.R.C. OF TEXAS MAR 13 1975
O.G. SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

OVER

* Designates items to be completed by Operator. Items not so designated will be completed by Cementing Company.

225333

26. Remarks: 807577 807579
Varn Petroleum Co.
#1 Chestnut Refugio, County
8 5/8 surface 20 bbl.cmt.ret.
PTA sacked up 5 sx for top.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c R C S that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report were performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers cementing data only.

Signature of Cementer or Authorized Representative

Morris R DeLorey Cementer
Name of Person and Title (type or print)

Halliburton Services
Cementing Company

Rt.6 Box 452
Street Address or P O Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 575-1443
Area Code

Jan.21,1975
Date

*OPERATOR

I declare under penalties prescribed in Article 6036c, R C S, that I am authorized to make this certification, that I have knowledge of the well data and information presented on this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data and information presented hereon.

*Signature of Operator or Authorized Representative

Helene Moelter, Production Clerk
*Name of Person and Title (type or print)

Varn Petroleum Company
*Operator

900 The 600 Building,
*Street Address or P O Box

Corpus Christi, TX 78401
*City, State Zip Code

*Telephone 512 882 6225
Area Code

3/6/75
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated in one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule.
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

AMENDED

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

FORM W-1
(3-1-70)

API Well No. 42 025 30335

SPS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1

2. Operator
VARN PETROLEUM COMPANY

3. Address (Including City and Zip Code)
Suite 900, The 600 Building
Corpus Christi, TX 78401

4. Lease Name
CHESTNUTT

5. Location (S.L., Blk., Survey)
Dominique Toci Survey A-1237

6. This well is to be located 17 miles Southeast
Direction from Beeville, TX
Nearest Post Office or Town

7. RRC District 2

8. County Bee

9. Well Number 1

10. Number of Acres in Lease 503

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.) 467'

12. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES [X] NO [ ]

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules, indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If Yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat ABOVE 5300'	5300'		37	38	40	No	None	Yes	Oil/Gas	--	--

Amended

RECEIVED
R.R.C. OF TEXAS

ENGINEERING DEPT.

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S. that I am authorized to make this report; that this report was prepared by me or under my supervision and direction; and that data and facts stated therein are true, correct and complete to the best of my knowledge.

REMARKS: To adjust distances of lease lines with respect to survey lines and adjust location of well in relation thereto.

Signature Helene Hoelter

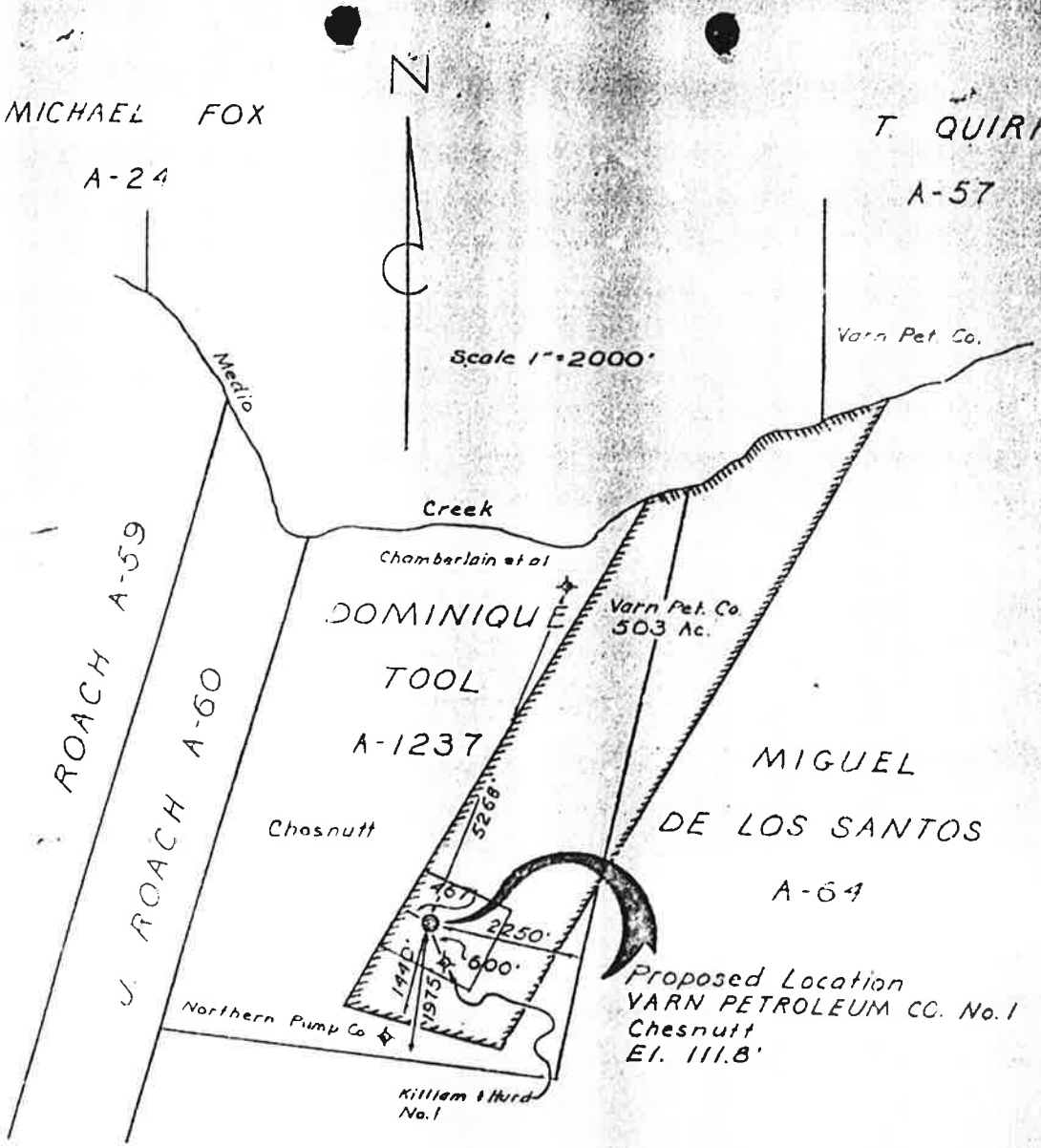
Title Production Clerk

Date 10/22/74

Telephone Area Code 512 882 6225

– OVER –

025 30335



RECEIVED
R.R.C. OF TEXAS
OCT 23 1974
SAN ANTONIO, TEXAS

LOCATION PLAT
for
VARN PETROLEUM CO.

No. 1 Chesnutt being 1440' FSWL and 467' FNWL of 503 acre lease, also scales 1975' FSWL and 2250' FSEL of the Dominique Tool Survey A-1237, located approximately 17 miles Southeast of Beeville, Bee County, Texas.

Certified to be correct as shown, this the 18th day of October, 1974

ROBERT L. OWENS
1463

By: B. Killiam

Registered Public Surveyor

OWENS MIDDLETON SURVEYING CO.
Alice 664 4662
Beeville 358 6484
Mathis 547 5694

025-30335

BEE DIST. 2
API NO. 42 025 30335

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

FORM W-1 (3-1-70)

8

SPS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

7. RRC District: 2

8. County: Bee

1. Operator: VARN PETROLEUM COMPANY

4. Lease Name: CHESTNUTT

9. Well Number: 1

2. Address (Including City and Zip Code): Suite 900, The 600 Building, Corpus Christi, TX 78401

5. Location (Sec., Blk., Survey): Dominique ToolSurvey A-1237

10. Number of Acres in Lease: 503

6. This well is to be located 17 miles SE Direction from Beeville, TX Nearest Post Office or Town.

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 1200'

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] NO [ ]

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field. (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat ABOVE 5300	5300'		37	38	40	No	None	Yes	Oil/Gas	--	0--

RECEIVED
R. R. C. OF TEXAS
SEP 10 1974
SAN ANTONIO, TEXAS

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS:

1½ Mi SE of Media Creek Fld.

Signature: Helene Hoelter
Production Clerk

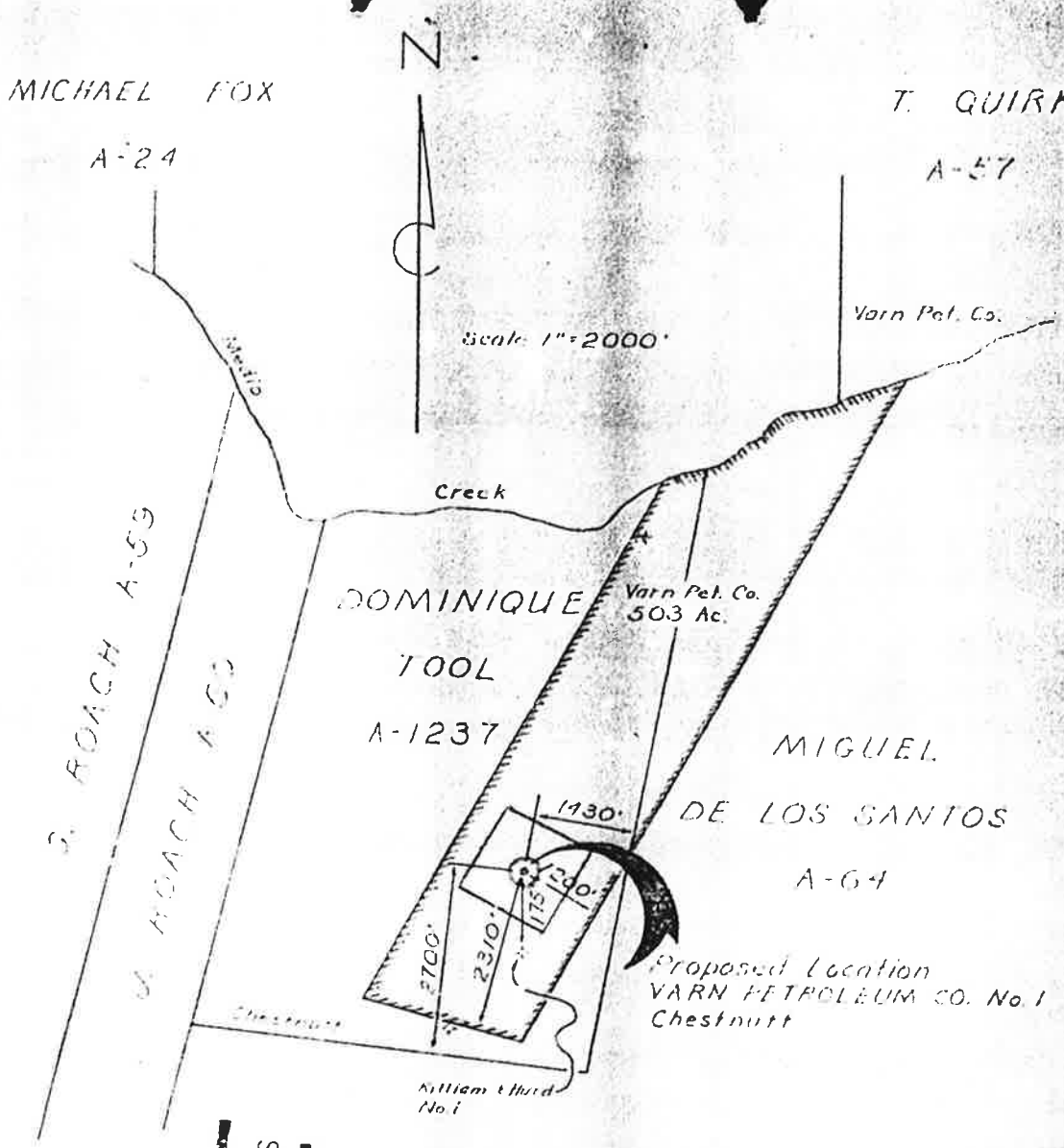
Title: 9/9/74

Date:

Telephone Area Code 512 882 6225

- OVER -

42025 1880335 40



RECEIVED
SEP 10 1974
HOUSTON, TEXAS

LOCATION PLAT
for
VARN PETROLEUM CO.

No 1 Chestnutt being 2310' FSWL and 1200' FSEL of 503 acre lease, also scales 2700' FSWL and 1430' FSEL of the Dominique Tool Survey A-1237, located approximately 17 miles Southeast of Beeville, Bee County, Texas.

Certified to be correct as shown, this the 17th day of August, 1974

By:

Registered Public Surveyor

OWENS MIDDLETON SURVEYING CO.
Alice 664 4662
Beeville 358 6484
Mathis 547 3694

025-30335

MAP ID #9

API# 42-025-01555
DRY HOLE

Please Refer to File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4 (9)
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Northern Pump Company Address Box 94, Great Bend, Kansas

Sec. No. _____ Block No. _____ Survey Dominique Tool County Bee

Well No. 1 Name of Lease Josephine Chesnutt No. of Acres 800

Name of Field in which well is located Wildcat Date well was plugged 9-25, 1955

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of Northern Pump Company

Character of Well at the time of completion: Oil _____ bbls; Gas _____ Cu. Ft.; Dry X
(Initial Production) (Initial Production)

Amount well producing when plugged: Oil 0 bbls; Gas 0 Cu. Ft.; Water 0 bbls.

Has this well ever produced oil or gas? No

Total Depth 5485 feet. Top of each producing sand None feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Pump Method

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? Perforate 4613-32; 4124-32'; 3980-94'. Baker Cast Iron Plug set at 4250' w/50 sack cement plug. Baker Cast Iron Plug set at 4050' - Fill hole w/heavy laden mud to 400'.

SIZE PIPE	PUT IN WELL Ft.	PUT IN WELL In.	PULLED OUT Ft.	PULLED OUT In.	LEFT IN WELL Ft.	LEFT IN WELL In.	PACKERS AND SHOES
Spot 400' cement plug in surface casing - Hole filled to top of surface.							
9-5/8"	529				529		
5-1/2"	4710				4710		

Show depth found and thickness of all water, oil and gas formations Water sand from surface to 1250'

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: Casing, Cement and Drilling Mud

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:

Laura Thompson	Beeville, Texas	Royalty
Josephine Chesnutt	Beeville, Texas	Royalty
Mrs. Michael Fox	Beeville, Texas	Royalty
Humble Oil and Refining Co.	Corpus Christi, Texas	Lessee
Union Producing Co.	Beeville, Texas	Lessee

Was notice given before plugging to all available adjacent lease owners as required by Rule 10? Yes

I, Chas. J. Beu, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name Chas J Beu, Title General Mgr.

Subscribed and sworn to before me this 27th day of September, 1955

Columbia Turner

Notary Public Barton County, Texas

Correspondence regarding this well should be addressed to:

Name Northern Pump Company Address Box 94, Great Bend, Kansas

025-01555

Please Refer to File No. ____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company Northern Pump Company Address Box 94, Great Bend, Kansas

Sec. No. ____ Block No. ____ Survey Dominique Tool County Bee

Well No. 1 Name of Lease Josephine Chesmutt No. of Acres 800 Elev. 120'

Name of Field in which well is located Wildcat

Located 7 Miles NE Direction from Skidmore (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Northern Pump Company

Drilling Commenced August 8, 1955 Drilling Completed August 15, 1955

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 5485'

Date you wish to Plug September 25, 1955.

Name of Party Plugging Well Northern Pump Co. Address Box 94, Great Bend, Kansas

Correspondence regarding this well should be sent to: Name Chas. J. Ben

Address Box 94, Great Bend, Kansas

Initial Production of Gas: Volume (MCF) 0 24 hrs. Pressure 0 lbs. per square inch

Initial Production of Oil: Barrels 0

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained as to total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks: ____

RECEIVED
SEP 29 1955
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

Driller's log of Northern Pump Company's Josephine Chesnutt Well No. 1, Bee County, Texas.

Date commenced - August 8, 1955
Date completed - August 15, 1955

0	-	12	Rotary Space
12	-	415	Surface clay, shale and sand
415	-	539	Shale and sand
			Ran and cemented 16 Jts. 9-5/8" casing with 250 sacks cement. Set at 524.50'
539	-	1455	Shale and sand streaks
1455	-	2055	Shale with streaks of sand
2055	-	2670	Sand and shale
2670	-	3070	Shale with streaks of sand
3070	-	3845	Shale and sand
3845	-	3907	Shale
3907	-	4320	Sand and shale
4320	-	4355	Sand and shale streaks
4355	-	4502	Shale and sand - sticky streaks
4502	-	4777	Shale with sticky streaks
4777	-	4944	Shale
4944	-	5248	Shale and sand
5248	-	5477	Shale and sand
5477	-	5485	Shale
5485			Total depth
			Ran and cemented 5½" casing. Set at 4710'

This is to certify that the foregoing is a true and correct log showing the formations encountered and depths drilled on Northern Pump Company's Josephine Chesnutt Well No. 1, Bee County, Texas.

SOUTHLAND DRILLING COMPANY

Austin W. Mosley

Subscribed and sworn to before me a notary public in and for Bexar County, Texas, this 23 day of August, 1955.

RECEIVED
SEP 29 1955
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

Jennie B. Whitaker

JENNIE B. WHITAKER
Notary Public, Bexar County, Texas

Please refer to File No. .....

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1

APPLICATION TO DRILL, DEEPEN OR PLUG BACK

IS THIS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK.....Drill.....?

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

M

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use a scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line.....3500.....feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease.....feet.

Date.....August 5.....19.55....

Name of company or operator

Name.....Northern Pump Company.....

Address...P. O. Box 2071.....

City.....Corpus Christi, Texas.....

Description of farm or lease:

Name of Lease.....Josephine Chesnutt.....

Number of Acres...800.....Well No....1.....

Number of wells on lease.....None.....

Survey Dominique Toole, A-1237

Elevation.....120.....Feet
(Above sea level)

Section No.....Block No.....

Located in.....Wildcat.....Field

(If Wildcat state above)

.....Bee.....County

.....7.....Miles...NE.....direction from

.....Skidmore.....nearest postoffice or town.

Rotary or Cable Tools.....Rotary.....

Date work will start drilling.....On permit.....

Depth to which you propose to drill...5550...feet.

Date work will [illegible]

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name.....

Address.....

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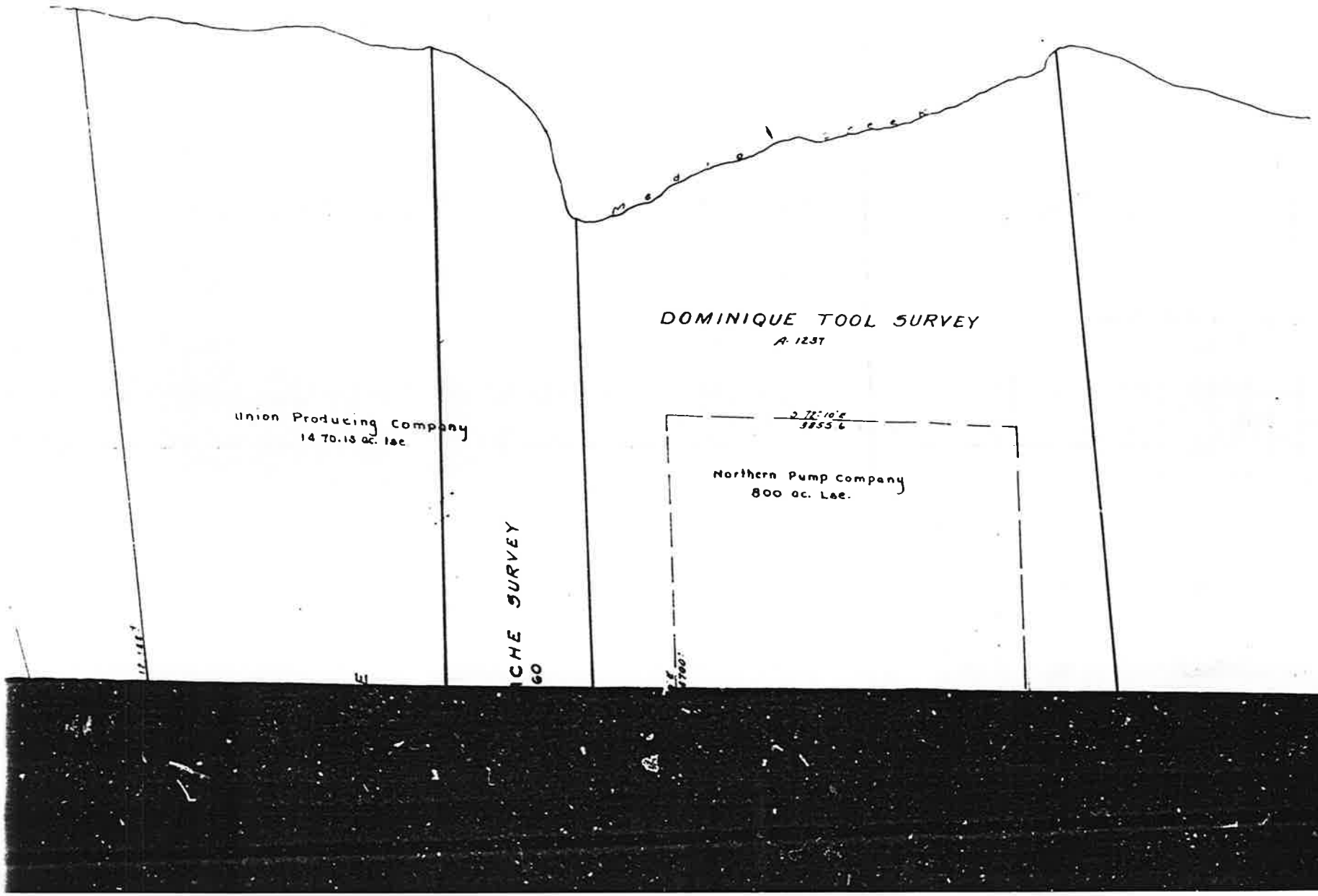
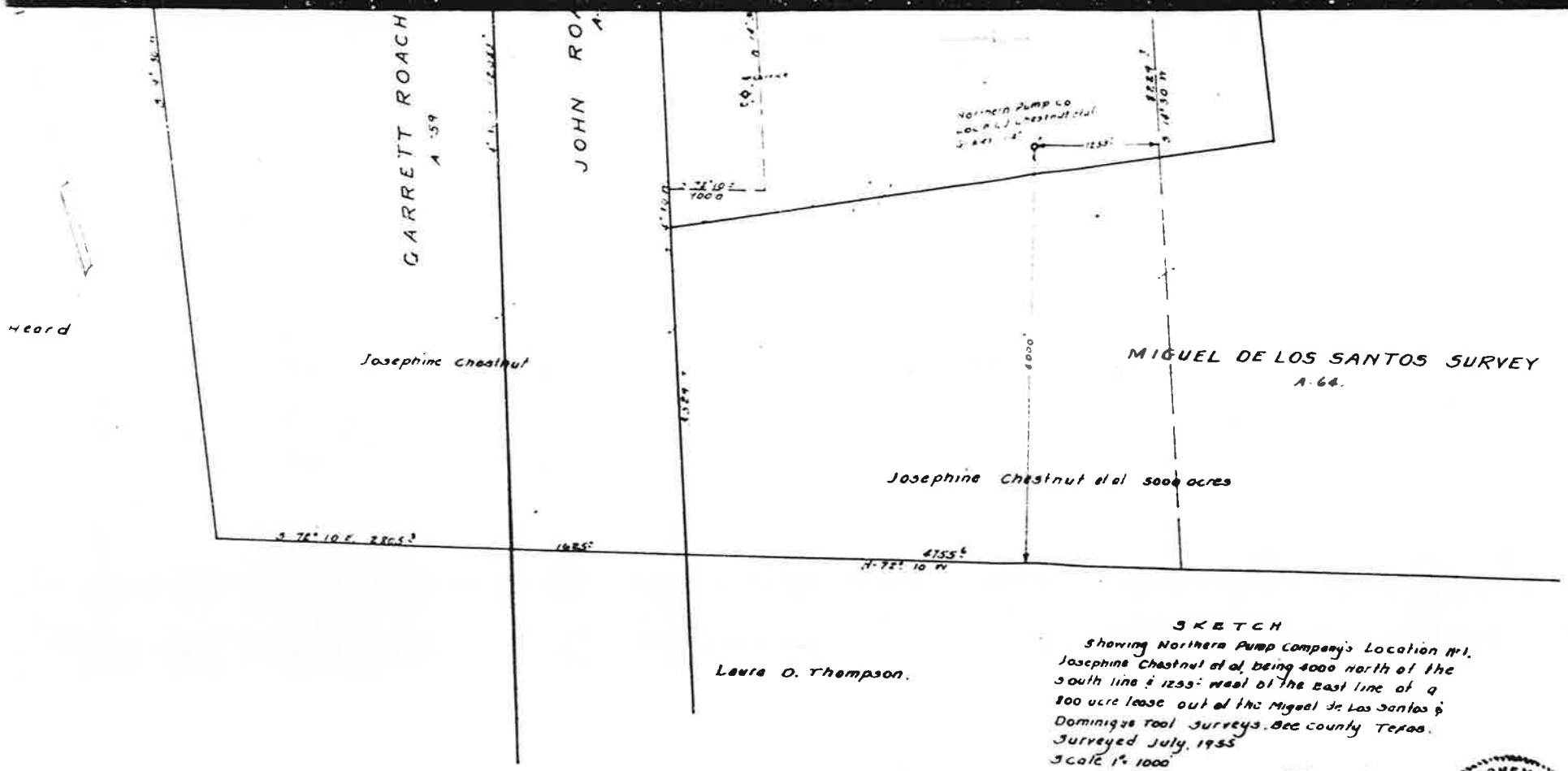
AUG 8 1955
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

DR


Medio Creek
DOMINIQUE TOOL SURVEY
A. 1237
Union Producing Company
1470.13 ac. Lse
Northern Pump Company
800 ac. Lse.



SKETCH

Showing Northern Pump Company's Location #1. Josephine Chestnut et al being 4000 north of the South line & 1295' west of the East line of a 800 acre lease out of the Miguel de Los Santos & Dominigue Tool Surveys. Bee County Texas.
Surveyed July, 1955
Scale 1" 1000'

W. S. Embry
Licensed State Land Surveyor

STATE LAND SURVEYOR
LICENSED

MAP ID #10

API# 42-025-02488
DRY HOLE

Please Refer to File No._____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application
To Plug and
Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company KILLAM & HURD Address P. O. Box 499, Laredo, Texas

Sec. No. - Block No. - Survey D.Tool, A-1237 County Bee

Well No. #1 Name of Lease Josephine Chesnutt No. of Acres 640 Elev. -

Name of Field in which well is located Wildcat

Located 12 Miles NW Direction from Woodsboro, Texas (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of KILLAM & HURD

Drilling Commenced April 23, 1966. Drilling Completed May 3, 1966

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 5417

Date you wish to Plug immediately, 19__.

Name of Party Plugging Well Pee Wee Cementers Address Georgewest, Texas

Correspondence regarding this well should be sent to: Name Killam & Hurd

Address P. O. Box 499, Laredo, Texas

Initial Production of Gas: Volume (MCF) -0- 24 hrs. Pressure -0- lbs. per square inch

Initial Production of Oil: Barrels -0-

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks: _____

RECEIVED
MAY 16 1966
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

025-20068

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS

SEE ATTACHED FORMATION RECORD

Method of shutting off water HEAVY MUD & CEMENT Is water completely shut off? YES

Amount of water with oil -0- per cent -0-

I, John G. Hurd being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

John G. Hurd

Representative of Company.

Dated: May 14, 1966

Subscribed and sworn to before me this ..... day of ....., 19.....

Notary Public

.....County, Texas.

025-20068

Please Refer to
File No. ____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company KILLAM & HURD Address BOX 499, Laredo, Texas

Sec. No. - Block No. - Survey D.Tool, A-1237 County Bee

Well No. #1 Name of Lease Josephine Chesnutt No. of Acres 640

Name of Field in which well is located Wildcat Date well was plugged May 3, 1966

Form 1 (Notice of Intention to Drill) Was Filed in Name of KILLAM & HURD

Character of Well at the time of completion: Oil -0- (Initial Production) bbls; Gas -0- (Initial Production) Cu. Ft.; Dry Dry

Amount well producing when plugged: Oil -0- bbls; Gas -0- Cu. Ft.; Water -0- bbls.

Has this well ever produced oil or gas? No

Total Depth 5417 feet. Top of each producing sand none feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Pump

Were plugs used? yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? No. Ran cement plugs from 1600' to 1500' w/38 sacks cement and from 300' to 200' w/38 sacks cement.

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
10-3/4"	100'	-	-	-	100'	-	Cemented from top to bottom.

Show depth found and thickness of all water, oil and gas formations none

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: Heavy mud and cement

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:
Union Producing Company, Box 2827, Corpus Christi, Texas
Amerada Petroleum Corporation, P. O. Box 2040, Tulsa, Oklahoma, 74102

Was notice given before plugging to all available adjacent lease owners as required by Rule 10? Yes

I, John G. Hurd, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name John G Hurd Title Partner

Subscribed and sworn to before me this ____ day of ____, 19__

Dated: May 14, 1966

Notary Public ____ County, Texas

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MAY 16 1966
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Correspondence regarding this well should be addressed to:

Name KILLAM & HURD Address P. O. Box 499, Laredo, Texas

025-20068

D R I L L E R ' S L O G

KILLAM & HURD
P. o. Box 499
Laredo, Texas

No. 1 Josephine Chestnutt Estate
Bee County Wildcat
1200' EL & 1400' SL of D. Tool Survey
Abstract 1237

DEPTHS		FORMATIONS & REMARKS
0	10	Space; Ground level to top Drive Bushing Rig No. 3 Spudded April 23, 1966
10	115	Surface clay , gravel & sand; Ran 100' of New 10-3/4" Casing & Cemented top to bottom with Pee Wee Cementers & Bulk Cement 4-24-66
115	531	Water Sands; Rained out & Shut Down to 4-28-66
531	1540	Shale streaks & sands
1540	2750	Sands with shale breaks
2750	3115	Shale
3115	3540	Sand; had some lost circulation @3,540'
3540	3800	Sand
3800	5130	Shale with sands (sparsely)
5130	5300	Sand
5300	5317	Hard shale & sandy shale
5417		T. D. Reached; Ran Schlumberger Induction & Sonic Logs; No Shows; Ran Cement Plugs 1600' to 1500' and 300' to 200' and washed the mud out with water to 200'. @ request of Mr. Sam Chestnutt, Executor of the Estae of Josephine Chestnutt for purpose of making a water well; Dry & Abandoned.

J. E. Hillier
Drilling Contractor

RECEIVED
MAY 16 1966
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Subscribed and sworn to before me this 10th day of May, 1966.

Mildred B. Hillier
Notary Public in and for Atascosa County, Texas

MILDRED B. HILLIER
Notary Public, Atascosa County, Texas

CEMENTING AFFIDAVIT

I, J [illegible], being of lawful age and having full knowledge of the facts herein below set out do state:

That I am employed by PEE WEE CEMENTERS in the capacity of [illegible], and on May 3, 1966, [illegible] For [illegible] & HUNT under the direction, supervision and control of the said Mr. Williams the [illegible] Lease, Well No. 1 in the [illegible] Field, [illegible] County, Texas, and that 75 sacks of cement were used at the following depths:

From [illegible] to [illegible] - 20 sks.

From [illegible] to [illegible] - 35 sks.

From [illegible] to [illegible] - Top Off one

From [illegible] to [illegible] - [illegible]

Signed Jesse Hulbert

STATE OF TEXAS

COUNTY OF [illegible].

Before me, the undersigned authority, on this day personally appeared [illegible], known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has known facts therein recited.

RECEIVED
MAY 16 1966
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Subscribed and sworn to before me on this the [illegible] day of May, 1966.

Christine Hale
Notary Public in and for

Live Oak County, Texas.

025-20068

APPLICATION FOR PERMIT TO ABANDON
AND USE AS A WATER WELL

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
Austin, Texas

As owners in fee simple of the land on which Killam & Hardy drilled a well for oil and gas in Dist County, to wit, #1 Josephine Chesnutt, the same about to be plugged and abandoned, we hereby file application for permit to make use of the fresh water therein when the well is properly plugged back to the approximate depth of 200 feet.

In consideration of the granting of this application, we hereby obligate ourselves to complete the plugging of said well any time it becomes polluted with mineral water, or constitutes a menace to any oil or gas producing strata in that area, when so ordered by the Railroad Commission of Texas or its representatives.

Sam D. Chesnutt
Name Executor, Estate of Josephine Cleveland Chesnutt Deceased

Box 89 Kenedy, Texas
Address Town

STATE OF TEXAS }

COUNTY OF Karnes }

Before me, a Notary Public, in and for Karnes County, Texas, on this day personally appeared Sam D. Chesnutt Jr., known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposed and consideration therein expressed, and in the capacities therein stated.

Given under my hand and seal of office this the 27 day of April, A.D., ~~19~~ 1966.

Cosme Fernandez Jr.
Notary Public in and for Karnes County, Texas.

RECEIVED
MAY 16 1966
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

025 - 20068

(10)

Application to Drill, Deepen or Plug Back.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK DRILL

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE,
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 1200 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease - feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date April 19, 19 66

Name of company or operator

Name KILLAM & HURD

Address P. O. Box 499

City Laredo, Texas

Description of farm or lease:

Name of Lease Josephine Chesnutt

Number of Acres 640 Well No. 1

Number of wells on lease -

Elevation (Ft. above sea level) Section No. - Block No. -

Survey D. Tool, A-1237

Zone or Reservoir -

To be Located in Wildcat Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) 1200' FEL and 1400' FSL

Bee County

12 Miles Northwest direction from Woodsboro, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling Receipt of Permit

Depth to which you propose to drill 5,500 feet.

Date work will start deepening

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name

Address

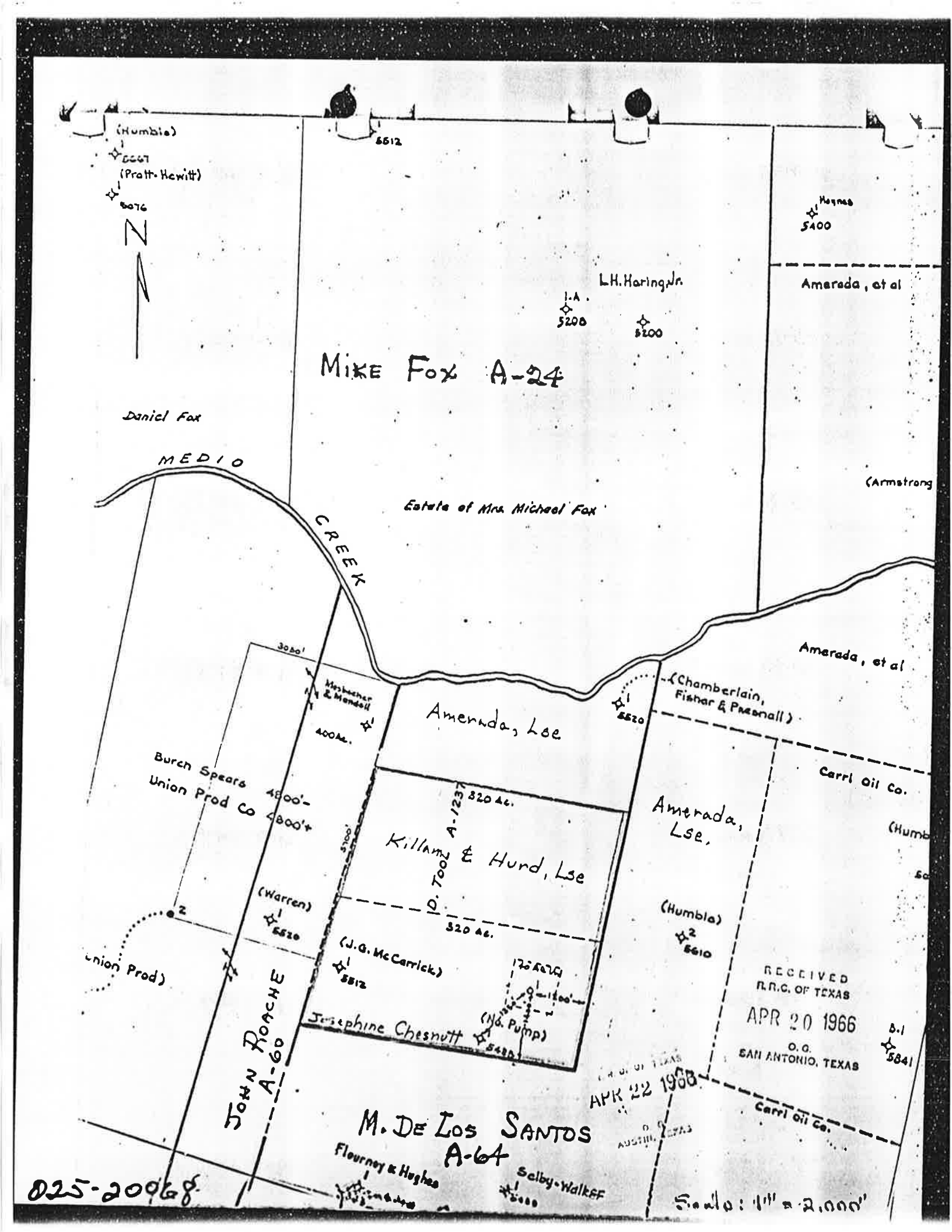
RECEIVED
R.R.C. OF TEXAS
APR 20 1966
O. G.
SAN ANTONIO, TEXAS

R.R.C. OF TEXAS
APR 22 1966
O. G.
AUSTIN, TEXAS

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

20068


(Humble)
(Pratt-Hewitt)
6076
6512
Haynes
5400
L.H. Haring, Jr.
I.A.
5200
5200
Amerada, et al
MIKE FOX A-24
Daniel Fox
MEDIO
CREEK
Estate of Mrs. Michael Fox
(Armstrong
3080'
Mayhew & Mendell
400 Ac.
Amerada, Lse
(Chamberlain, Fisher & Presnall)
5520
Amerada, et al
Burch Spears
Union Prod Co
4800'+
4800'+
320 Ac.
A-123
D. Tool
Killam & Hurd, Lse
5700'
Amerada, Lse.
Carri Oil Co.
(Warren)
5520
320 Ac.
(Humble)
5610
(J.G. McCarrick)
5512
Josephine Chesnutt
(No. Pump)
5420
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R.R.C. OF TEXAS
APR 20 1966
O.G.
SAN ANTONIO, TEXAS
APR 22 1966
AUSTIN, TEXAS
5841
JOHN ROACHE
A-60
M. DE LOS SANTOS
A-64
Flournoy & Hughes
Selby-Walker
025-20068
Scale: 1" = 2,000'

MAP ID #12

API# 42-025-33659
GAS WELL
PLUGGED

(DOES NOT PENATRATE CONFINING/INJECTION ZONE)

Received
RRC of Texas
SEP 10 2012
Oil & Gas Division
San Antonio, Texas

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev 12/92 (99)

API No (if available)	1 RRC District
42-025-33659	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or ID Number: 253060

2. FIELD NAME (as per RRC records)	3 Lease Name	5. Well Number
BURKES RIDGE (~~1600~~) 2040	SASSER	1

6 OPERATOR	6a. Original Form W-1 filed in name of	10. County
MEGO RESOURCES, LLC	Mego Resources, LLC	BEE

7 ADDRESS	6b. Any subsequent W-1's filed in name of:	11. Date Drilling Permit Issued
1229 FM 889,GEORGE WEST, TX 78022	N/A	6/1/09

8 Location of well, relative to nearest lease boundaries of lease on which this well is located		12. Permit Number
5,489.1 feet from SW line and 6,040.6 feet from SE line of the Sasser lease		681680

9a. SECTION, BLOCK and SURVEY	9b. Distance and direction from nearest town in this county	13 Date Drilling Commenced
M. De Los Santos A-64	12 Miles NE Kidmore, TX	~~6/10/12~~ 6-10-09

16 Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no.'s	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14. Date Drilling Completed
GAS	2500					~~6/13/12~~ 6-13-09

18. If gas, amt of cond on hand at time of plugging		15 Date Well Plugged
N/A		08/07/12

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19 Cementing Date	08/07/12							
20 Size of Hole or Pipe in which Plug Placed (inches)	2 7/8							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2076							
*22 Sacks of Cement Used (each plug)	70							
*23. Slurry Volume Pumped (cu. ft)	80.5							
*24 Calculated Top of Plug (ft)	0							
25 Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt #/Gal	15.8							
*27 Type Cement	H							

RECEIVED
RRC OF TEXAS
SEP 17 2012
OIL & GAS WELL COMPLIANCE
AUSTIN, TEXAS

28 CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	309	309	12 1/4
2 7/8	6.5	2,500	2,500	7 7/8

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material (Use reverse side of form if more space is needed)

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	2,262	TO	2,263	FROM	TO
FROM	2076	TO	2,078	FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO

RECEIVED
RECORDS

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

DEC 17 2012

Kenneth Barnes
Signature of Cementer or Authorized Representative

B&S SERVICES, INC. TEXAS
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Bob Mitchell	Managing Partner	9/6/12	PHONE 361	449-3178
REPRESENTATIVE OF COMPANY	TITLE	DATE	A/C	NUMBER

adams 9/14/12
SIGNATURE REPRESENTATIVE OF RAILROAD COMMISSION

C.A.

31. Was well filled with mud - laden fluid (Brine) according to the regulations of the Railroad Commission? ☑ Yes ☐ No	32. How was mud applied? 27/8 Cemented from Top to Bottom w/Coil Tubing	33. Mud Weight Cement 15.8 LBS/GAL
34. Total Depth 2,500 Depth of Deepest Fresh Water 1600'	Other Fresh Water Zones by T D.W.R. TOP / BOTTOM	35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☑ Yes ☐ No
		36. If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well: B45 Services, P.O. Box 907, Edna, Texas 77420 — Date RRC District Office notified of plugging: 8/6/12

38. Name(s) and address(es) of surface owners of well site:

Stuart Smoser
P.O. Box 907
Corpus Christi, Texas 78403

39. Was notice given before plugging to the above? Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS B45 pumped the cement / Coppethead Coil Tubing used to load the hole.

BAKER HUGHES

Baker Atlas

HIGH DEFINITION INDUCTION LOG SM
COMPENSATED Z-DENSILOG SM
COMPENSATED NEUTRON LOG
GAMMA RAY LOG
TTRM SUB SM

FILE NO:	COMPANY	MEGO RESOURCES, LLC
	WELL	SASSER NO.1
API NO: 42-025-33659	FIELD	WILDCAT
	COUNTY	BEE STATE TEXAS

Ver. 3.87

THANK YOU

LOCATION:
5489.1' FSWL & 6040.6' FSEL OF LEASE
400' FNWL & 7030' FNEL OF
DE LOS SANTOS, M SURVEY
ABS-64

OTHER SERVICES

PERMANENT DATUM	GL	ELEVATION	123.4 FT
LOG MEASURED FROM	KB	10 FT	ABOVE P.D.
DRILL. MEAS. FROM	KB		

ELEVATIONS:
KB 133.4 FT
DF 132.4 FT
GL 123.4 FT

DATE		12-Jun-2009		
RUN	TRIP	1	1	
SERVICE ORDER		506667		
DEPTH DRILLER		2530 FT		
DEPTH LOGGER		2533 FT		
BOTTOM LOGGED INTERVAL		2533 FT		
TOP LOGGED INTERVAL		320 FT		
CASING DRILLER		8.625 IN @319 FT		@
CASING LOGGER		320 FT		
BIT SIZE		7.875 IN		
TYPE OF FLUID IN HOLE		WBM		
DENSITY	VISCOSITY	9.7 LB/G	42 S	
PH	FLUID LOSS	9.6	5.9 C3	
SOURCE OF SAMPLE		MUD PIT		
RM AT MEAS. TEMP.		2.24 OHMM	@75 DEGF	
RMF AT MEAS. TEMP.		1.79 OHMM	@75 DEGF	@
RMC AT MEAS. TEMP.		2.68 OHMM	@75 DEGF	
SOURCE OF RMF	RMC	CALC.	CALC.	
RM AT BHT		2.01 OHMM	@110 DEGF	@
TIME SINCE CIRCULATION		4 HOURS		
MAX. RECORDED TEMP.		110 DEGF		
EQUIP. NO.	LOCATION	HL-6547	VICTORIA TX	
RECORDED BY		J. STUDINGER		
WITNESSED BY		B. MITCHELL		

RECEIVED
RRC OF TEXAS
AUG 07 2009
OIL & GAS DIVISION
SAN ANTONIO, TX

MAP ID #14

API# 42-025-32874
DRY HOLE

(14)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

L-1 on File

API NO. 025 32874 (if available)

1 RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 191413

2. FIELD NAME (as per RRC Records): Wildcat

3. Lease Name: White Ranch

5. Well Number: 2

6. OPERATOR: C&E Operating, Inc.

6a. Original Form W-1 Filed in Name of:

10. County: Bee

7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77478

6b. Any Subsequent W-1's Filed in Name of

11 Date Drilling Permit Issued: 2/5/98

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3354.0 feet From south Line and 2592.0 feet From NW Line of the White Ranch Lease

12. Permit Number: 472940

9a. SECTION, BLOCK, AND SURVEY: Maximo Gomez Grant A-25

9b. Distance and Direction From Nearest Town in this County: 9.5 miles NW from Woodsboro

13 Date Drilling Commenced: 2/9/98

16. Type Well (Oil, Gas, Dry): Gas — Total Depth: 5711

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 2/18/98

18. If Gas, Amt. of Cond. on Hand at time of Plugging

15. Date Well Plugged: 9/15/99

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	9-15-99	9-15-99	9-15-99	9-15-99				
20. Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½	4½				
21 Depth to Bottom of Tubing or Drill Pipe (ft.)	4550	1700	1050	14				
*22. Sacks of Cement Used (each plug)	15	15	15	5				
*23 Slurry Volume Pumped (cu. ft.)	17.7	17.7	17.7	5.9				
*24. Calculated Top of Plug (ft.)	4850	1600	950	4				
25. Measured Top of Plug (if tagged) (ft.)								
*26 Slurry Wt. #/Gal.	15.6	15.6	15.6	15.6				
*27. Type Cement	H	H	H	H				

RECEIVED
R.R.C. OF TEXAS
OCT 22 1999
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

28 CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	665	665	12¼
4½	10.5	5670	5670	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

WATER BOARD LETTER DATED 2/4/98

Depth 1650 ft

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 4999	TO 5010	FROM 13(A) Exception Dated 2/5/98	TO
FROM 5567	TO 5571	FROM	TO 650 ft
FROM	TO	FROM Surface Casing	TO
FROM	TO	FROM	TO ft
FROM	TO	FROM D. V. @	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

RECORD CODIFICATION JAN 06 2000

Roywell Services
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boenig
REPRESENTATIVE OF COMPANY

President
TITLE

10/8/99
DATE

Phone 361 741-3600
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? Circulate

33. Mud Weight 9.8 LBS/GAL

34. Total Depth 5711

Depth of Deepest Fresh Water 1650

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	1000

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: Roywell Services, Refugio, Texas

Date RRC District Office notified of plugging: 9/14/99

38. Name(s) and Address(s) of Surface Owners of Well Site

Louise Welder Hall
800 E. Corpus Christi
Beeville, Texas 78102

39. Was Notice Given Before Plugging to the Above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs: [ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No 42- 02532874

7 RRC District No: 02

8 RRC Gas ID No: 171413

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

RECEIVED
R.R.C. OF TEXAS
AUG 07 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

1 FIELD NAME (as per RRC Records or Wildcat): Wildcat

2 LEASE NAME: White Ranch

9 Well No: 2

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.

RRC Operator No: 120079

10 County of well site: Bee

4. ADDRESS: 13333 S.W. Freeway, Suite 105, Sugar Land, TX 77478

11 Purpose of filing
- Initial Potential ☐
- Retest ☐
- Reclass ☐
- Well record only (Explain in remarks) ☒

5 Location (Section, Block, and Survey): Maximo Gomez Grant A-25

5b Distance and direction to nearest town in this county: 9.5 miles NW from Woodsboro

6 If operator has changed within last 60 days, name former operator:

12 If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13 Pipe Line Connection: NA

14. Completion or recompletion date: NA

15 Any condensate on hand at time of workover or recompletion? ☐ Yes ☐ No

16 Type of Electric or other Log Run: Induction

Section I — GAS MEASUREMENT DATA

Date of Test:

Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ | Positive Choke ☐ | Orifice Vent Meter ☐ | Pitot Tube ☐ | Critical-flow Prover ☐

Gas produced during test: MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1										
2										
3										
4										

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix} =	Avg Shut-In Temp ^oF	Bottom Hole Temp ^oF @ (Depth)

$D_{eff}^{8/3}$ = ; $\sqrt{T_f}$ = $\sqrt{\quad}$ = ; $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = RECORD CODIFICATION ; $\frac{\sqrt{GL}}{\quad}$ = ____ = ____

MAR 26 1999

Run No	Time of Run Min	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp ^oF	q_w (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In									
1									
2									
3									
4									

Return to Records Retention

Run No	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)	Angle of Slope
Shut—In								θ .....
1								n .....
2								Absolute Open Flow
3								..... MCF/DAY
4								

WELL TESTER'S CERTIFICATION I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

Signature. Well Tester | Name of Company | RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Signature. Operator's representative: Terry L. Bonner | Title: President | Date: 6/24/98 | Tel: 281 265-6500 (A/C Number)

MAPPING

VALID PERMIT

JAN 14 1999

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [ ] Deepening [ ] Plug Back [ ] Other [X]

18. Permit to Drill, Plug Back or Deepen — DATE 2/5/98 — PERMIT NO. 472940
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
C&E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well
0

21. Total number of acres in this lease
2853.9

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 2/9/98 Completed 4/17/98

23. Distance to nearest well, Same Lease & Reservoir
NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located
3354 Feet From south Line and 2592 Feet from
northwest Line of the White Ranch Lease

25. Elevation (DF, RKB, RT, GR, ETC.)
91.9'

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay: NA
28. Total Depth: 5711
29. P. B. Depth: 5623'
30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] Dt of Letter 2/5/98

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X; Cable Tools

34. Name of Drilling Contractor
Edde Drlg. Co.

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	665	--	285 sx A	12¼	surface	512
4½	10.5	5670	1698	628 sx H	7 7/8	surface	1148

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	5489	5489

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From		To	
From	NA	To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
5567-71	Perforate 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	3290		
Vicksburg	5650		

REMARKS Evaluating for further work

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to: Railroad Commission of Texas, Oil and Gas Division, Drilling Permits, P. O. Box 12967, Austin, Texas 78711-2967

143

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

* Expedite *

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

AR

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32874 ▶ Permit No. 472940 (NEW)

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc. OK
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
▶ Rule 37 Case No

2. Address (including city and zip code): 13333 S. W. Frwy, Suite 105, Sugar Land, Tx 77478
953535

6. Lease Name (32 spaces maximum): White Ranch
7. RRC Lease/ID No.:
8. Well No.: 2
9. Total Depth: 5800'

10. Location
• Section _____ Block _____ Survey Maximo Gomez Grant Abstract No. A-25
• This well is to be located 9.5 miles in a N. W. direction from Woodsboro which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 1272 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 2853.9 (OUTLINE ON PLAT.)

Unit Tot 2519

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 5800')	5800	467/1200	40	40	No	NA	O/G	1	1

4001
~~2592~~ 2592 FNWL

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 3354 FSL & ~~1272 FWL~~
• Survey/Section 20992 FSL & 717 FWL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening
Signature

Terry L. Boening/ President
Name and title of operator's representative

2 3 98
Date mo. day yr.

281/ 265-6500
Tel.: Area Code Number

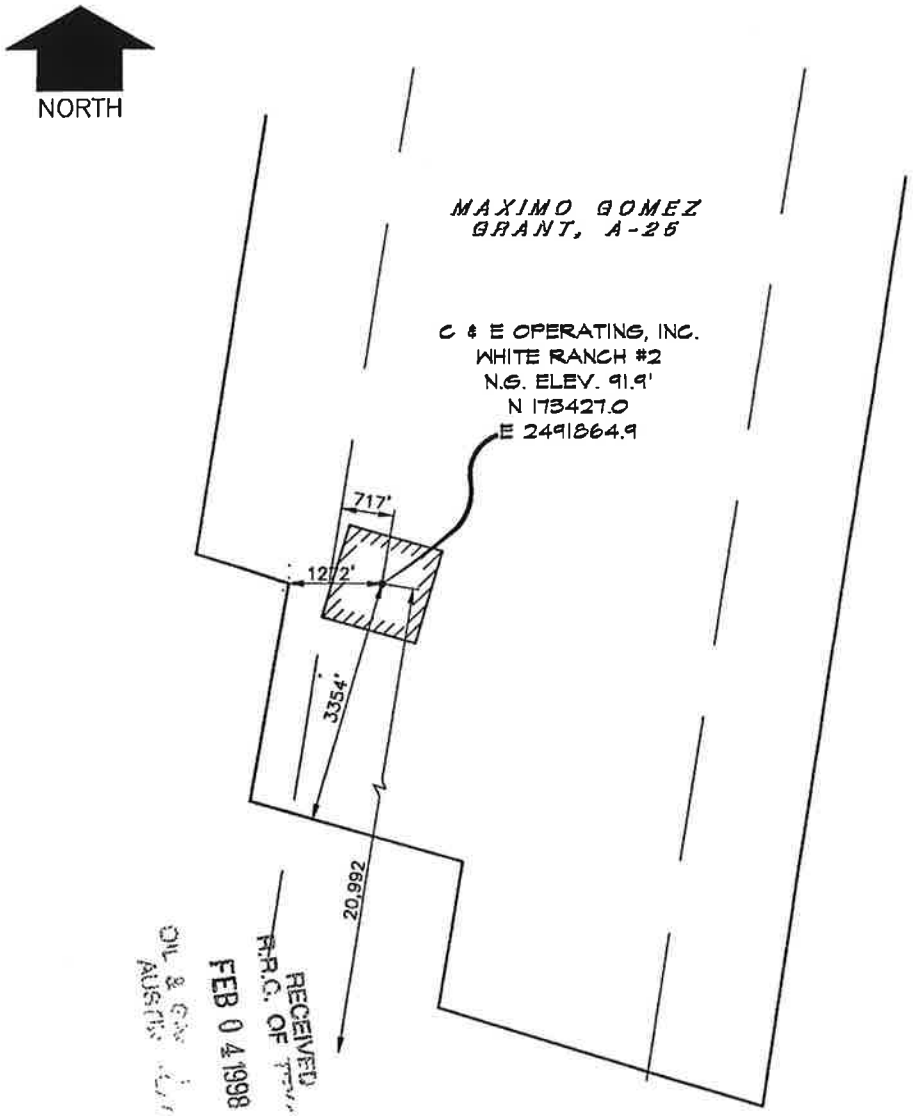
150 GPP
50 EXP
200

• RRC Use Only •
206712 FEB 1998

472940

025-32874

MAPPING



TIES TO LEASE LINES
3354' FSL
1272' FWL

TIES TO SURVEY LINES
20992 FSL
717' FWL

DISTANCE FROM NEAREST TOWN
9.5 MILES N.W. OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON JANUARY 19, 1998 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

1-26-98
DATE

WELL LOCATION
C & E OPERATING, INC.
WHITE RANCH #2
MAXIMO GOMEZ GRANT, A-25
BEE COUNTY, TEXAS

DWG. No. :	9873-502
SCALE :	1" = 2000'
DATE :	01/98
DWN. BY :	CAV

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

MAP ID #15

API# 42-025-31901
DRY HOLE

0 0 0 0 4 1 0 3 8 7

(15)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (If available) 42-025-31901

1. RRC District: 02

4. RRC Lease or Id. Number:

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

SEP 14 1983
O. G.
SAN ANTONIO, TX

2. FIELD NAME (as per RRC Records): Wildcat	3. Lease Name: Welder	5. Well Number: 1
6. OPERATOR: Petrus Operating Company, Inc.	6a. Original Form W-1 Filed in Name of: Petrus Operating Company, Inc.	10. County: Bee
7. ADDRESS: 12201 Merit Drive, Suite 900	6b. Any Subsequent W-1's Filed in Name of:	11. Date Drilling Permit Issued: 7-12-83
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 467 Feet From West Line and 2900 Feet From North Line of the Welder Lease		12. Permit Number: 166034
9. SECTION, BLOCK, AND SURVEY: M. De Los Santos, A-64	9b. Distance and Direction From Nearest Town in this County: 12 miles west of Refugio	13. Date Drilling Commenced: 8-28-83
16. Type Well (Oil, Gas, Dry): Dry; Total Depth: 6000	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s: GAS ID or OIL LEASE #; Oil-O Gas-G; WELL #	14. Date Drilling Completed: 9-3-83
18. If Gas, Amt. of Cond. on Hand at time of Plugging: N/A		15. Date Well Plugged: 9-5-83

CEMENTING TO PLUG AND ABANDON DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date 1983	9/5	9/5	9/5	9/5				
20. Size of Hole or Pipe in which Plug Placed (inches)	7-7/8	8-5/8	8-5/8	8-5/8				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5700	1750	750	10				
*22. Sacks of Cement Used (each plug)	80	35	30	10				
*23. Slurry Volume Pumped (cu. ft.)	94.4	41.3	35.4	sacked				
*24. Calculated Top of Plug (ft.)	5500	1650	650	0				
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. # / Gal.	15.6	15.6	15.6	15.6				
*27. Type Cement	H	H	H	H				

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8-5/8	24	1698	1698	12-1/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: [ ] Yes [X] No

29a. If answer to above is "Yes," state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

WATER BOARD LETTER DATED 7-13-83

Depth 1650 ft.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 1698	TO 6000 open hole	FROM 13(A) Exception Date	TO
FROM	TO	FROM	TO
FROM	TO	FROM Surface Casing	TO ft.
FROM	TO	FROM	TO
FROM	TO	FROM D.V. @	TO ft.

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

A. C. Kenner — Signature of Cementer or Authorized Representative

Halliburton Services — Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

C. L. Hardy — REPRESENTATIVE OF COMPANY

Drilling & Production Manager — TITLE

9-9-83 — DATE

Phone 214 — A/C

387-0599 — NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

025-31901

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission?	XX Yes ☐ No	32. How was Mud Applied?	33. Mud Weight
		Circulated	10.0 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules?	
6000'				X Yes ☐ No
Depth of Deepest Fresh Water 1650'			36. If NO, Explain	

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well

Halliburton Company, Victoria, Texas

Date RRC District Office notified of plugging: 9-1-83

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Mary McCurdy Welder, Mary Elizabeth Knight, Louise W. Hall, Raymond J. Welder, Jr., and Josephine Welder Miller 801 N. Adams St., Beeville, TX 78102 (surface owners)

No offset producing leases.

39. Was Notice Given Before Plugging to Each of the Above?

Raymond J. Welder, Jr. was notified, others were not.

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log - such Log must be released to a Commercial Log Service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs

☐ Driller's ☒ Electric ☐ Radioactivity ☐ Acoustical/Sonic

41. Date FORM P-4 "Special Clearance" Filed?

N/A

42. Amount of Oil Recovered since Plugging 0 bbls*

* File FORM P-1 "Production Report" for month this oil was produced

RRC USE ONLY

Nearest Fld: _____

REMARKS 9-1-83

Tel. #483144

Petrus Operating Company, Inc.

#1 Welder Refugio County

Plug To Abandon

10918-C&O

0 0 0 0 4 1 0 3 8 3

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev. 5-1-80)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Wildcat	*2. RRC District: 02
*3. Operator: Petrus Operating Company, Inc.	*4. County: Fee
*5. Lease Name(s) and RRC Lease Number(s) or I.D. Number(s): Welder	*6. Well Number: 1
*7. Location (Section, Block, and Survey): M. De Los Santos, A-64	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI STAGE CEMENTING PROCESS: Tool	MULTI STAGE CEMENTING PROCESS: Shoe
8. Cementing Date	8/29/83					
*9. (a) Size of Drill Bit (inches)	12-1/4					
(b) [illegible] Calculations	100					
*10. Size of Casing (inches O.D.)	8-5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1698					
13. Type API [illegible] (a) In First (Lead) or Only Slurry [illegible]	85% A/15% Poz + 8% gel + 3% salt					
(b) In Second Slurry	H + 2% $CaCl_2$					
(c) In Third Slurry TOP OUT	H + 2% $CaCl_2$					
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	640					
(b) In Second Slurry	200					
(c) In Third Slurry TOP OUT	50					
(d) Total Sacks of Cement Used	890					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.01					
(b) In Second Slurry	1.18					
(c) In Third Slurry TOP OUT	1.18					
16. Volume of Slurry Pumped (cu.ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry	1286.4					
(b) In Second Slurry	236					
(c) In Third Slurry TOP OUT	59					
(d) Total Slurry Volume Pumped (cu.ft.)	1581.4					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	3832					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	YES					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu.ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

R.R.C. OF TEXAS
SEP 1 1 [illegible]
SAN ANTONIO, TX.

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks Tkt. #646639 8/29/83 PETRUS OPERATING COMPANY, INC. #1 Welder Refugio County 8 5/8" Surface 0' - 1700'	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

James R. Tackett
Signature of Cementer or Authorized Representative

James R. Tackett, Cementer
Name of Person and Title (type or print)

Halliburton Services
Cementing Company

Rt. 6, Box 452
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

512 - 575 - 1443
Telephone Area Code

8/30/83
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

C. L. Hardy
*Signature of Operator or Authorized Representative

C. L. Hardy - Drilling & Production Mgr.
*Name of Person and Title (type or print)

Petrus Operating Company, Inc.
*Operator

12201 Merit Drive, Suite 900
*Street Address or P.O. Box

Dallas, Texas 75251
*City, State Zip Code

*Telephone 214 387-0599
Area Code

9-9-83
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules or if exception is needed to cementing requirements in Statewide or Special Rules, unless the Form G-1 or W-2 is signed by the cementing company representative.
   (2) Each copy of Form W-3 unless the Form W-3 is signed by the cementing company representative.
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations Cementing Company and Operator shall comply with Statewide Rule 13(F).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to the surface, or
      (1) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing (Statewide Rules/Special Rules may vary):
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING AND ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed [illegible] top of the well.

RAILROAD COMMISSION OF TEXAS

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

FORM W-1
1/1/81

API Well No. 42 025-31901
Instruction (1a & b) on back side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

☐ Directional Well ☐ Amended Permit (Explain in Remarks) ☐ Sidetrack

RRC Permit Number, if previously assigned. 166034

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: [X] DRILL [ ] DEEPEN (Below Casing) [ ] DEEPEN (Within Casing) [ ] PLUG BACK [ ] RE-ENTER

7. RRC District: 2

8. County: Bee

1. Operator: Petrus Operating Company, Inc. 660145 016760

4a. Lease Name (32 Spaces Maximum): Welder

4b. RRC Lease or ID No. (If assigned):

9. Well Number: 1

2. Address (Including City and Zip Code): 12201 Merit Drive, Suite 900, Dallas, Texas 75251

6. Location (Sec., Blk., Survey): H. De Los Santos, A-64

10. Number of Contiguous Acres in Lease or Unitized Tract: 1400

c. This well is to be located 12 miles West from Refugio Nearest Post Office or Town.

11. Distance from Proposed Location to Nearest Lease or Unit Line (ft.): 467

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] NO [ ] (Instruction (2) on back side.)

12. Total Depth: 6500

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exc. Case Numbers for this well here, if none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40 (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is This a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of completed, permitted or applied for, locations on this lease in same reservoir for which this permit is sought? OIL	GAS
00004001 Wildcat	6500	None	467 1200	40	40	No	NA	Regular [X] Rule 37 [ ]	Oil & Gas	NA	NA
								Regular [ ] Rule 37 [ ]			
								Regular [ ] Rule 37 [ ]			
								Regular [ ] Rule 37 [ ]			

Corrected

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED
A. Lease Lines 467' FWL, 2900' FNL
B. Survey Lines 1050' FEL, 19,100' FNL

25. (a) Is this well/lease subject to SWR 36? Yes [ ] No [X]
(b) If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.

26. Do you anticipate future use of this well/lease to complete in any penetrated zone not listed in Column 13, for which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see instruction #8. Yes [ ] No [X]

27. Is this a pooled unit? YES [ ] (Attach P-12, certified plat, & list of pooled owners) NO [X]

28. Subdivided Acreage YES [ ] (Attach P-12A) NO [X]

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Tex. Rev. Civ. Stat. Ann. Art. 6252-14, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature

Title Drilling & Production Mgr.

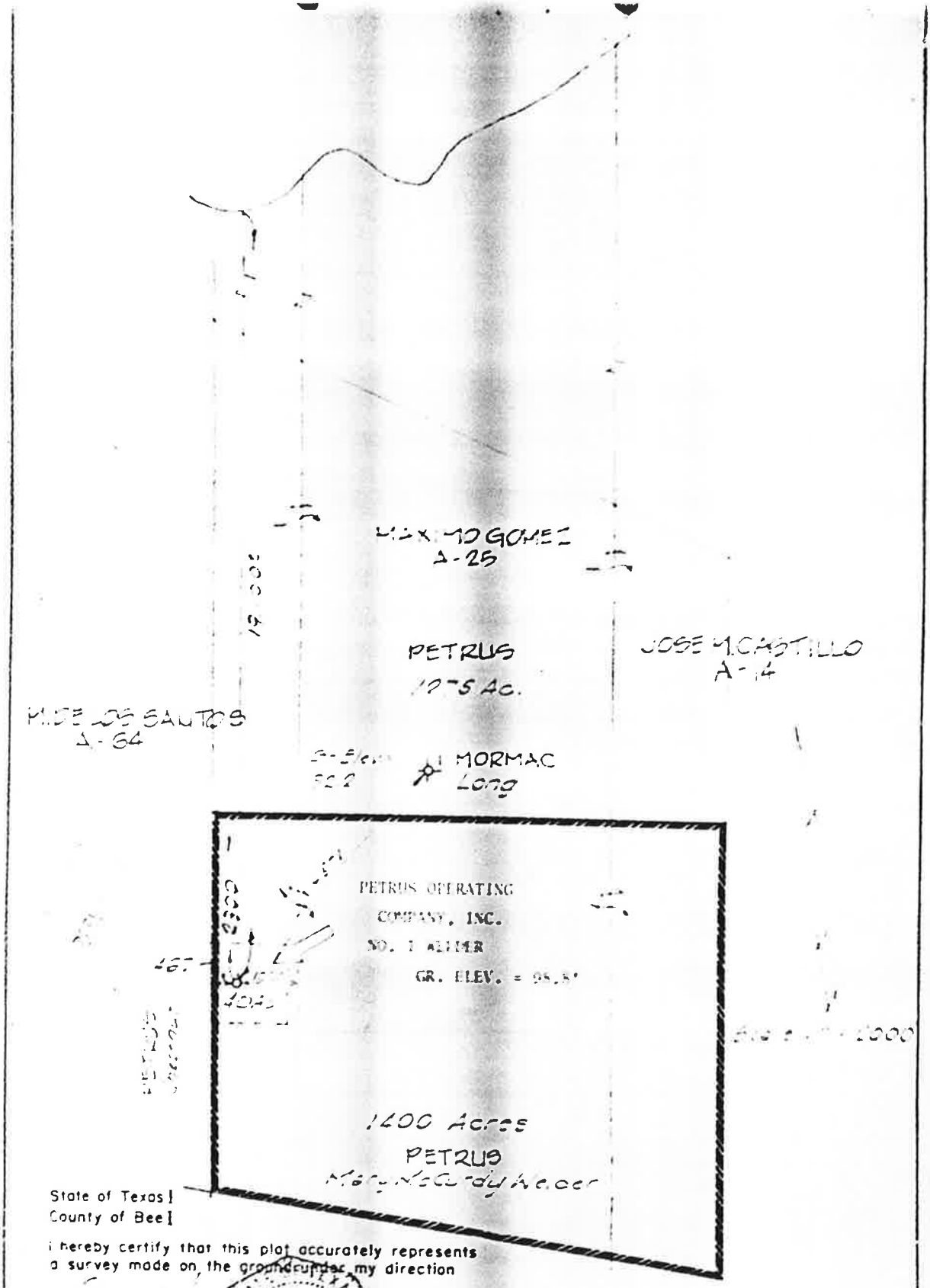
Date July 6, 1982

Telephone Area Code 214 387-0599

REMARKS

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

025-31901



State of Texas }
County of Bee }

I hereby certify that this plat accurately represents a survey made on the ground under my direction

George E. Harris
Registered Public Surveyor
No 826

Date JUNE 15, [illegible]

GEORGE E. HARRIS
REGISTERED PUBLIC SURVEYOR
STATE OF TEXAS

PETRUS OPERATING COMPANY, INC.
1400 ACRE LEASE
MARY McCURDY SURVEY A-66
M. DE LOS SANTOS GRANT A-64
BEE COUNTY, TEXAS

HARRIS ENGINEERING
PO Box 426
Beeville, Texas 78102
PH (512) 358-1793

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

FORM W-1
1/1/81

025 3190

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Directional Well ☐ Sidetrack ☐ Amended Permit (Explain in Remarks) ☐

API Well No. 42 Instruction (7a & b) [illegible] side

RRC Permit Number, if previously assigned. 166034

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: ☒ DRILL ☐ DEEPEN (Below Casing) ☐ DEEPEN (Within Casing) ☐ PLUG BACK ☐ RE-ENTER

7. RRC District: 2

8. County: Bee

1. Operator: Petrus Operating Company, Inc.

4a. Lease Name (32 Spaces Maximum): Welder

4b. RRC Lease or ID No. (if assigned):

9. Well Number: 1

2. Address (Including City and Zip Code)
12201 Merit Drive, Suite 900
Dallas, Texas 75251

5. Location (Sec., Blk., Survey): M. Delos Santos, A-64

10. Number of Contiguous Acres in Lease or Unitized Tract: 1400

6. This well is to be located 12 miles West Direction from Refugio Nearest Post Office or Town.

11. Distance from Proposed Location to Nearest Lease or Unit Line (ft.): 467

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES ☒ NO ☐ (Instruction (2) on back side.)

12. Total Depth: 6500

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exc. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of completed, permitted or applied for, locations on this lease in same reservoir for which this permit is sought? OIL	GAS
Wildcat	6500	None	467-1200	40	40	No	NA	Regular ☒ Rule 37 ☐	Oil & Gas	NA	NA
00004001								Regular ☐ Rule 37 ☐			
Records Only								Regular ☐ Rule 37 ☐			
								Regular ☐ Rule 37 ☐			

RECEIVED RRC OF TEXAS JUN - 9 1983 SAN ANTONIO, TEXAS

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED LEASE LINES OR SURVEY LINES
A. Lease Lines 467' FNL, 2900' FEL
B. Survey Lines 1050' FEL, 19,100' FNL

25. (a) Is this wellbore subject to SWR 36? Yes ☐ No ☒
(b) If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.) ☐

26. Do you anticipate future use of this wellbore to complete in any penetrated zone not listed in Column 13, for which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see Instruction #8. Yes ☐ No ☒

27. Is this a pooled unit? YES ☐ (Attach P-12, certified plat, & list of pooled zones) NO ☒

28. Substandard Acreage YES ☐ (Attach W-1A) NO ☒

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS:

C. L. [illegible]
Signature

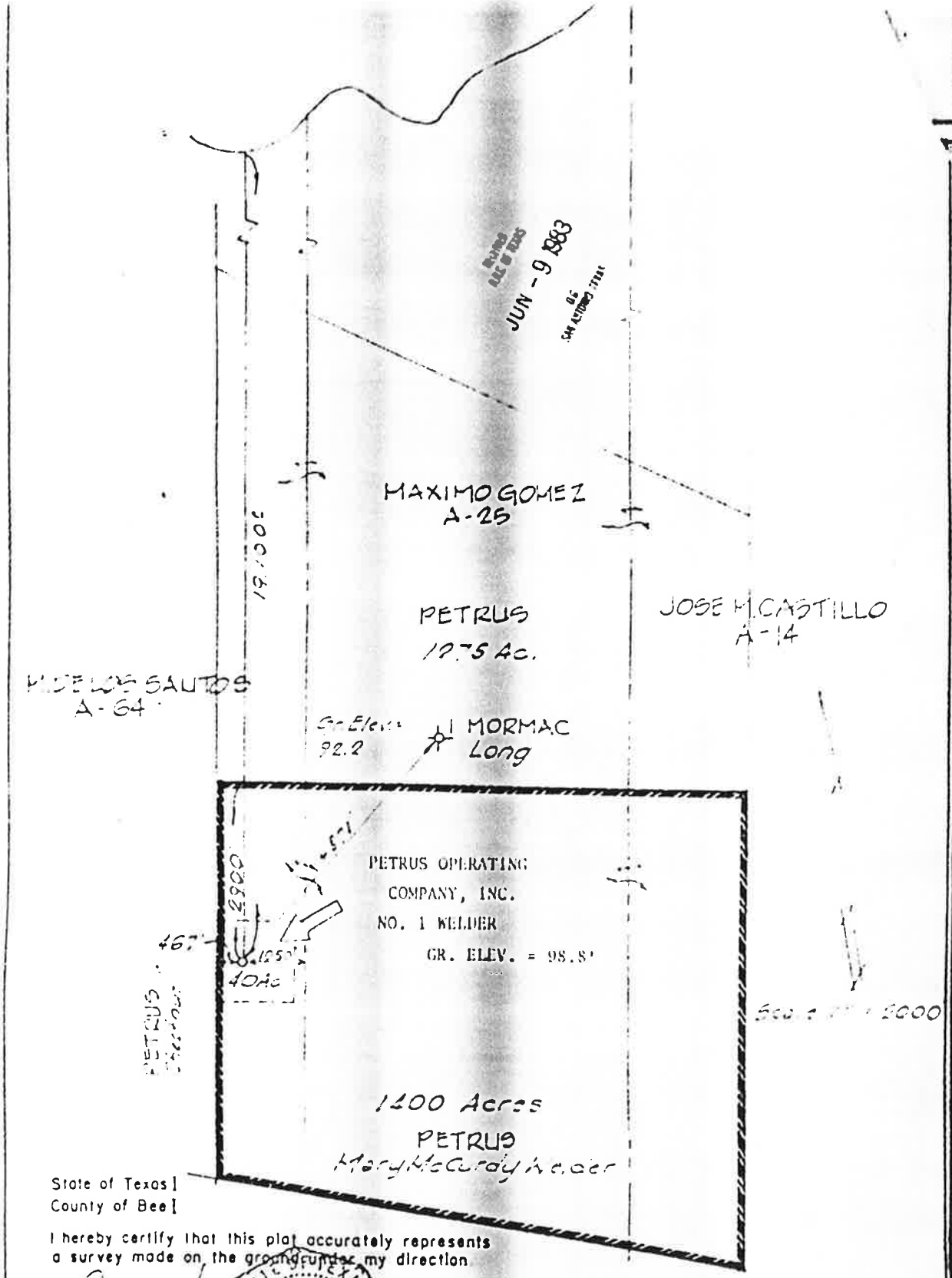
Drilling & Production Mgr.
Title

July 6, 1983
Date

Telephone Area Code 214 387-0599

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

00004001 038



State of Texas]
County of Bee]

I hereby certify that this plat accurately represents a survey made on the ground under my direction.

George E. Harris
Registered Public Surveyor
No 826

Date June 25, 19

PETRUS OPERATING COMPANY, INC.
1400 ACRE LEASE
#1 MARY MC CURDY KELDER
M. DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

HARRIS ENGINEERING
PO Box 426
Beeville, Texas 78102
PH (512) 358-1793

MAP ID #16

API# 42-025-30167
DRY HOLE

(16)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: Two

4 RRC Lease or Id. Number: -

2 FIELD NAME (as per RRC): Wildcat

3 LEASE NAME: Josephine Chesnutt

5 Well Number: 1

6. OPERATOR: Galaxy Oil Co.

10 County: Bee

7 ADDRESS: % Powers Operating Co. 1816 Guaranty Bank Plaza Corpus Christi, Texas 78401

11 Date Drilling Permit Issued: 9/29/72

8. SURFACE LOCATION: 1880 FEET FROM West LINE, AND 2000 FEET FROM South LINE

12 Date Drilling Commenced: 10/28/72

9 SECTION, BLOCK, AND SURVEY: M. De Los Santos A-64

13 Date Drilling Completed: 11/2/72

15. Type of Well (Oil, Gas, Dry)*: Dry

16. Type of Completion (Single, Dual, Etc.): Dry

17 Total Depth: 5710

14. Date Well Plugged: 11/4/72

18. FORM W-1 (Intention to Drill) Filed in Name of: Galaxy Oil Co.

19 Manner of Placement

PLUG #1	40	SACKS	TOP	1451	BOTTOM	1600	TYPE Class "A"
PLUG #2	40	SACKS	TOP	485	BOTTOM	585	TYPE " "
PLUG #3	10	SACKS	TOP	0	BOTTOM	30	TYPE " "
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES XX NO

21 How was Mud applied? Pump & Plug

22 Mud Weight: 10.1 LBS/GAL

23 Depth of Deepest Fresh Water: 1550 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to R.R.C. Rules? YES X NO

25 If NO, Explain: ---

26 Name and Address of Party Plugging Well: Dowell, Inc. Victoria, Texas

27 Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8	534	--	534	---

28 Names and Addresses of Surface Owner at Well Site and Operators of Offset Producing Leases

Harkins & Co. - Alice, Texas
Humble Oil & Refining - Corpus Christi, Texas

29 Was Notice given before Plugging to each of the above and RRC District Office? YES X NO

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R.B. Thompson — R.B. Thompson — Authorized Agent — 11/7/72

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

RECEIVED
R. R. C. OF TEXAS
NOV 15 1972

025 30167

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Wildcat	*2. RRC District 2
*3. Operator Galaxy Oil Company	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Josephine Chesnutt	*6. Well Number 1
*7. Location (Section, Block, and Survey) Miguel De Los Santos A-64	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING Single String	PRODUCTION CASING Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS Tool	MULTI-STAGE CEMENTING PROCESS Shoe
8. Cementing Date	10/29/72					
*9. (a) Size of Drill Bit (inches)	12¼"					
(b) Estimated % Wash or Hole Enlargement Used in Calculations.	----------					
*10. Size of Casing (inches O.D.)	8-5/8"					
*11. Top of Liner (if liner used) (ft.)	----					
*12. Setting Depth of Casing (ft.)	534'					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	Trinity litewate					
(b) In Second Slurry	class "A" w/2% CaCl					
(c) In Third Slurry	----					
14. Sacks of Cement Used (a) In First (Lead) or Only Slurry	180					
(b) In Second Slurry	100					
(c) In Third Slurry	-----					
(d) Total Sacks of Cement Used	280					
15. Slurry Volume per Sack of Cement (cu. ft./sack): (a) In First (Lead) or Only Slurry	1.7					
(b) In Second Slurry	1.18					
(c) In Third Slurry	-----					
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	306					
(b) In Second Slurry	118					
(c) In Third Slurry	----					
(d) Total Slurry Volume Pumped (cu. ft.)	424					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	surface					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. OF TEXAS
NOV 15 1972
[illegible]

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30167

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Wildcat
*2. Operator: Galaxy Oil Company
*3. Lease Name(s) and RRC Lease Number (Or I.D. Number(s)): Josephine Chestnut #1
*4. Location (Section, Block, etc.): Nide Los Santos A-64
*5. Well Number: Two Bee #1

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated Volume of Hole Enlargement (cu. ft.)						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class of Cement Amount of Additives Used (a) In First (Lead) or Only Slurry (If additional space is needed, use [illegible])						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu. ft./sack) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu. ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar outside casing) (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	11/4/72	11/4/72	11/4/72			
*20. Size of Hole or Pipe (which Plug Placed) (inches)	7-7/8"	7-7/8 & 8-5/8"	8-5/8"			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1600	585	30			
22. Sacks of Cement Used (each plug)	40	40	10			
23. Slurry Volume Pumped (cu. ft.)	47.2	47.2	11.8			
24. Calculated Top of Plug (ft.)	1451	485	Surface			
25. Measured Top of Plug (if tagged) (ft.)	1490					

RECEIVED
R. R. C. OF TEXAS
NOV 15 1972
[illegible]

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

— OVER —

Designated items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30167

26. Remarks: Powers Operating & Galaxy Oil Josephine Chestnut [illegible] County, [illegible] plug 1600-1500' in 7-7/8" [illegible] Comm [illegible] 2nd. plug [illegible] 585 to 485' in 7-7/8" [illegible] 8-5/8" csg. w/ 40 ksComm+ 2 Ca,Cl [illegible] 10 ks in top of sg.	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Clifton Schneider
Signature of Cementer or Authorized Representative

Clifton Schneider- Service Engineer
Name of Person and Title (type or print)

Dowell Division of Dow Chemical Co.
Cementing Company

[illegible] Box 1189
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 573-6379
Area Code

November 9, 1972
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Robt. B. Thompson
*Signature of Operator or Authorized Representative

Robt. B. Thompson
*Name of Person and Title (type or print)

Galaxy Oil Company
*Operator

% Powers Operating Co. 1616 Guaranty Bk. Plaza
*Street Address or P.O. Box

Corpus Christi, Texas 78401
*City, State Zip Code

*Telephone 512 883-7471
Area Code

November 14, 1972
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3,
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

Date October 3, 1972

The Railroad Commission of Texas
Oil and Gas Division
P. O. Box EE, Capitol Station
Austin, Texas 78711

Gentlemen:

An exception to Statewide Rule 13 (7) and/or applicable field rule is hereby requested for the well identified below:

LEASE NAME: Josephine Chestnut WELL NO.: 1

FIELD NAME: Wildcat COUNTY: Bee

SURVEY NAME: Miguel De Los Santos Survey

ABSTRACT NO.: 64 BLOCK NO.: _____ SECTION NO.: _____

DISTANCE AND DIRECTION FROM NEAREST TOWN: 10.7 miles northeast of Papalote, Texas.

PROPOSED DEPTH OF WELL: 5700' feet. The Texas Water Development Board by letter dated 9-27-72 recommends protection of water bearing strata to a depth of 1550 feet in this well.

OPERATOR'S COPY

PROPOSED DEPTH TO WHICH SURFACE CASING TO BE SET AND CEMENTED: 500'
PROPOSED METHOD OF CEMENTING CASING THROUGH ALL FRESH WATER STRATA WHICH ARE NOT PROTECTED BY CEMENTED SURFACE PIPE: If dry, sufficient cement plugs will be set to prevent any contamination of fresh water. If productive cement will be circulated from the casing shoe to the surface of the ground or a stage collar will be used to cement the fresh water strata.

REMARKS:
We are ready to move in on this location, please forward your approval.

Yours very truly,

Name Robert B. Thompson, by Sue Snyder
Galaxy Oil Company
Company
% Powers Operating Co.
1816 Guaranty Bank Plaza
Mailing Address
Corpus Christi, Texas 78401
City, State, Zip Code

RECEIVED
OCT -6 1972
O.C.C.

RECEIVED
R.R.C. OF TEXAS
NOV 15 1972

025-30167

THE STATE OF TEXAS X

COUNTY OF NUECES X

I hereby certify that the following is an accurate Driller's Log which was kept by Frio Drilling and Production Company during the drilling of the well known as Galaxy Oil Company, Josephine Chestnutt Well No. 1, Bee County, Texas:

0'	-	10'	Derrick Floor Elevation
10'	-	450'	Sand and Shale
450'	-	546'	Shale
546'	-	3968'	Sand and Shale
3968'	-	5454'	Shale
5454'	-	5718'	Sand and Shale
5718'	-		Total Depth

FRIO DRILLING AND PRODUCTION COMPANY

M. L. McHenry, President

THE STATE OF TEXAS X

COUNTY OF NUECES X

BEFORE ME, the undersigned authority, on this day personally appeared M. L. McHENRY, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein espressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 7th day of November, 1972

Ruth Ann Floyd
RUTH ANN FLOYD

Notary Public in and for Nueces County, Texas
My Commission Expires June 1, 1973

RECEIVED
R. R. C. OF TEXAS
NOV 15 1972

025-30167

BEE DIST. 2
API NO. 42 025 30 67

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-1

7

SPS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1. Operator: Galaxy Oil Co.
2. Address (Including City and Zip Code): % Powers Operating Co. Corpus Christi, Texas 78401
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] ✓ NO [ ]
4. Lease Name: Josephine Chestnut
5. Location (Sec., Blk., Survey): Miguel De Los Santos A-64
6. This well is to be located 10.7 miles Northeast
Direction from Papalote, Texas
Nearest Post Office or Town
7. RRC District: Two
8. County: Bee
9. Well Number: 1
10. Number of Acres in Lease: 640
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 1880'

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No, if yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat	5700'	N.A.	S.W. Rule 37	S.W. Rule 38	40	No	1st well	yes	oil & or gas	0	0

R.R.C. OF TEXAS
SEP 27 1972
AUSTIN, TEXAS

RECEIVED R.R.C. OF TEXAS SEP 27 1972 O.G. SAN ANTONIO, TEXAS

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

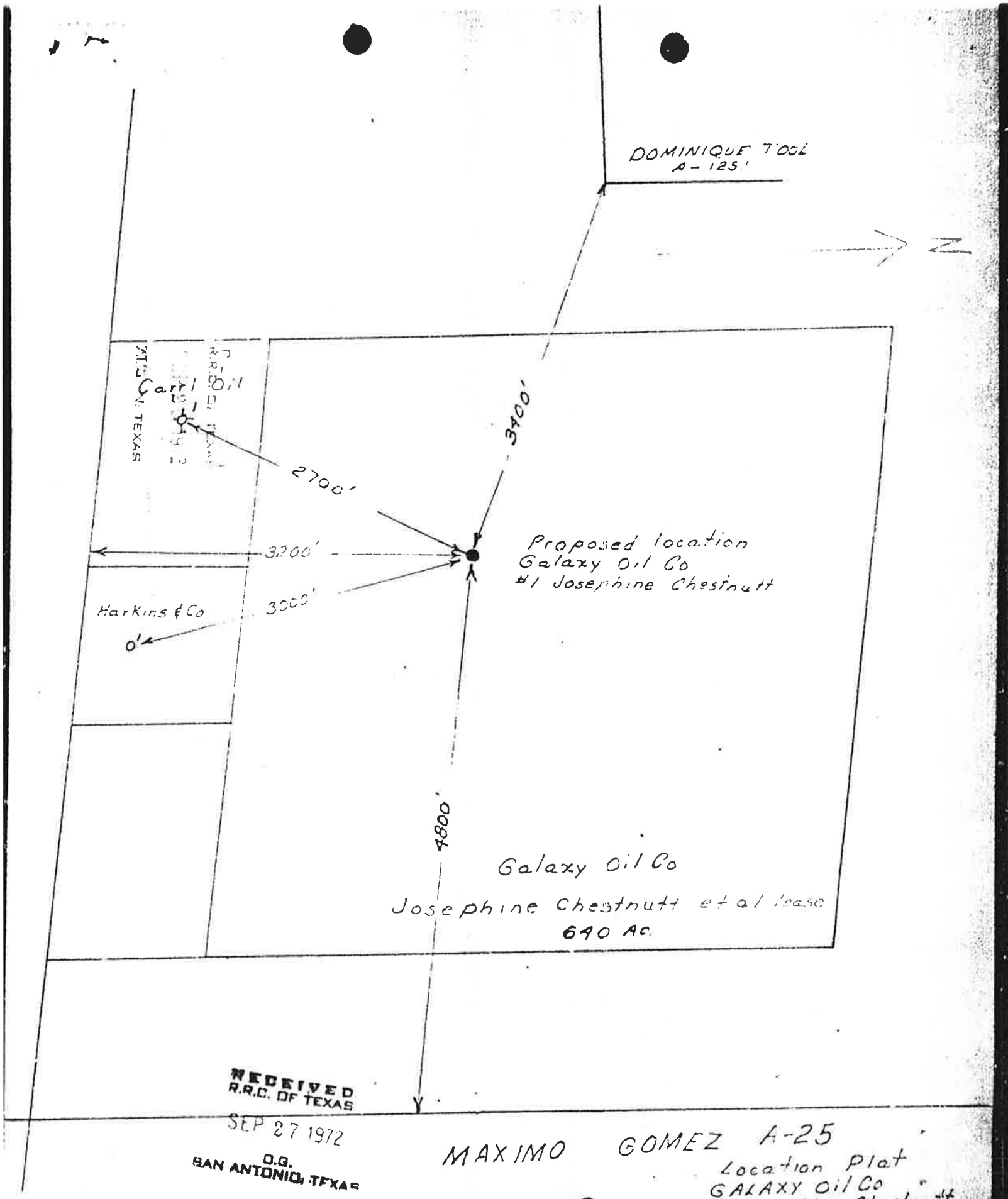
REMARKS: 3,400' South East and 4800' west of Survey line.

3000' N-NW. of Laura Thompson Field

Signature: Robert B. [illegible]
Authorized Agent
Title: 9-25-72
Date
Telephone: Area Code 512 8837471

- OVER -

467-02500 30167 Oac



RECEIVED
R.R.C. OF TEXAS
SEP 27 1972
O.G.
SAN ANTONIO, TEXAS

MAXIMO GOMEZ A-25

Location Plat
GALAXY Oil Co
#1 Josephine Chestnutt
Wildcat
Bee County, Texas
Scale 1" = 1000'

025-30167

MAP ID #17

API# 42-025-30257
DRY HOLE

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9-1-67

(17)

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

2 FIELD NAME (as per RRC Records): Wildcat

3 LEASE NAME: Chesnutt Heirs

4 RRC Lease or Gas ID Number:

5 Well Number: 1-A

6 OPERATOR: Harkins & Company & Double U Oil Co.

7 ADDRESS: P. O. Box 1940 - Alice, Texas 78332

8 SURFACE LOCATION: 3172 FEET FROM WEST LINE, AND 3100 FEET FROM SOUTH LINE

9 SECTION, BLOCK, AND SURVEY: Miguel De Los Santos Grant A-64

10 County: Bee

11 Date Drilling Permit Issued: 11-28-73

12 Date Drilling Commenced: 12-23-73

13 Date Drilling Completed: 12-30-73

15 Type of Well (Oil, Gas, Dry)*: Dry

16 Type of Completion (Single, Dual, Etc.): Single

17 Total Depth: 5581'

14 Date Well Plugged: 12-31-73

18 FORM W-1 (Intention to Drill) Filed in Name of: Harkins & Company & Double U Oil Co.

19 Manner of Placement

PLUG #1	30	SACKS	TOP	1500	BOTTOM	1600	TYPE	Common
PLUG #2	30	SACKS	TOP	277	BOTTOM	377	TYPE	Common
PLUG #3	5	SACKS	TOP	0	BOTTOM	10	TYPE	Common
PLUG #4		SACKS	TOP		BOTTOM		TYPE	

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21 How was Mud applied? Pump

22 Mud Weight: 10.8 LBS/GAL

23 Depth of Deepest Fresh Water: 1550 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25 If NO, Explain:

26 Name and Address of Party Plugging Well: Halliburton Services - Rt. 6 Box 452 - Victoria, Texas 77901

27 Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8-5/8"	337		337	

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Amerada Petroleum - Box 2040 - Tulsa, Oklahoma 74102
Exxon Co., U. S. A. - Wilson Tower - Corpus Christi, Texas 78401

29 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ]

CERTIFICATE:

I declare under penalties prescribed in Article 6035c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Connie Dean — REPRESENTATIVE OF COMPANY

Prod. Clerk — TITLE

1-10-74 — DATE

Signatures: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R.R.C. OF TEXAS
JAN 14 1974

*All Dry Holes, Fill in Reverse Side.

025 30257

45

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat)
Wildcat

*2. RRC District
2

*3. Operator
Harkins & Company & Double U Oil Co.

*4. County
Bee

*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s)
Cheanutt Heirs

*6. Well Number
1-A

*7. Location (Section, Block, and Survey)
Miguel De Los Santos Grant A-64

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	12-31-73	12-31-73	12-31-73			
*20. Size of Hole or Pipe in which Plug Placed (inches)	8-3/4	8-3/4	8-3/4			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1600	377				
22. Sacks of Cement Used (each plug)	30	30	5 sacked up for top.			
23. Slurry Volume Pumped (cu. ft.)	35	35				
24. Calculated Top of Plug (ft.)	1500	277				
*25. Measured Top of Plug (if tagged) (ft.)	1495					

RECEIVED
R. R. D. OF TEXAS
JAN 14 1974

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30837

26. Remarks: Ticket # 664969 Harkins & Company & Double U Oil Co. - Sacked up 5 sacks to go around top. Tagged @ 1495' 12-31-73	*27. Remarks: Chesnutt Heirs # 1-A

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

E. C. Hofer

Signature of Cementer or Authorized Representative

E. C. Hofer - Cementer

Name of Person and Title (type or print)

Halliburton Services - ~~Xxxxxx~~

Cementing Company

Rt. 6 Box 452

Street Address or P.O. Box

Victoria, Texas 77901

City, State Zip Code

Telephone 512 575 1443

Area Code

12-31-73

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Annie Deer

*Signature of Operator or Authorized Representative

Annie Deer, Prod. Clerk

*Name of Person and Title (type or print)

Harkins & Company & Double U Oil Co.

*Operator

P. O. Box 1940

*Street Address or P.O. Box

Alice, Texas 78332

*City, State Zip Code

*Telephone 512 664-3427

Area Code

1-10-74

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above,):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above,):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Wildcat	*2. RRC District 2
*3. Operator Harkins & Company & Double U Oil Co.	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) CHesnutt Heirs	*6. Well Number 1-A
*7. Location (Section, Block, and Survey) Miguel De Los Santos Grant A-64	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	12/24/73					
*9. (a) Size of Drill Bit (inches)	12-1/4					
(b) Estimated % Wash or Hole Enlargement Used in Calculations.	100					
*10. Size of Casing (inches O.D.)	8-5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	337					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	H 2% CaCl2					
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	212					
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used	212					
15. Slurry Volume per Sack of Cement (cu.ft./sack) (a) In First (Lead) or Only Slurry	1.18					
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	250					
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	250					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	605					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	YES					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. COMMISSION OF TEXAS
JAN 14 1974

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designated items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30257

26. Remarks: 583330
Harkins & Co. & Double U Oil Co.
1-A Chesnutt Heirs, Bee County, Texas
8 5/8 surface 5 bbl.cmt,ret.
12/24/73

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

D.R. Reynolds

Signature of Cementer or Authorized Representative

D.R. Reynolds Cementer

Name of Person and Title (type or print)

Halliburton Services

Cementing Company

Rt.6 Box 452

Street Address or P.O. Box

Victoria, Texas 77901

City, State Zip Code

Telephone 512 575-1443
Area Code

Dec.25,1973

Date

*OPERATOR

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Annie Deer

*Signature of Operator or Authorized Representative

Annie Deer, Prod. Clerk

*Name of Person and Title (type or print)

Harkins & Company & Double U Oil Co.

*Operator

P. O. Box 1940

*Street Address or P.O. Box

Alice, Texas 78332

*City, State Zip Code

*Telephone 512 664-3427
Area Code

1-10-74

*Date

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   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.

DRILLER'S LOG

HARKINS & COMPANY & DOUBLE U OIL CO.
CHESNUTT HEIRS # 1-A
BEE COUNTY, TEXAS

0	335	Sh & sd
335	1681	Sd & sh strks
1681	4616	Sh & sd
4616	4857	Sh
4857	5581	Sh & sd
5581		TD

Harkins & Company, Contractor

RECEIVED
JAN 14 1974

025-30257

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-1
(2-1-61)

API BEE DIST. 2
API NO. 42 025 30257

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1. Operator
Harkins & Co & Double U Oil Co

2. Address (Including City and Zip Code)
P. O. Box 1940
Alice, Texas 78332

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES [X] NO [ ]

4. Lease Name
Chesnutt Heirs

5. Location (Sec., Blk., Survey)
Miguel De Los Santos Grant A-64

6. This well is to be located 10½ miles NE
Direction from Papalote, Texas
Nearest Post Office or Town.

7. RRC District
2

8. County
Bee

9. Well Number
1-A

10. Number of Acres in Lease
640

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.)
3100'

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No, If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	22. GAS
Wildcat ABOVE 6000	5000'	None	Rule 37	Rule 38	40	No	None	Yes	Oil/Gas	None	None

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R. R. C. OF TEXAS
NOV 26 1973
SAN ANTONIO, TEXAS

R.R.C. OF TEXAS

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

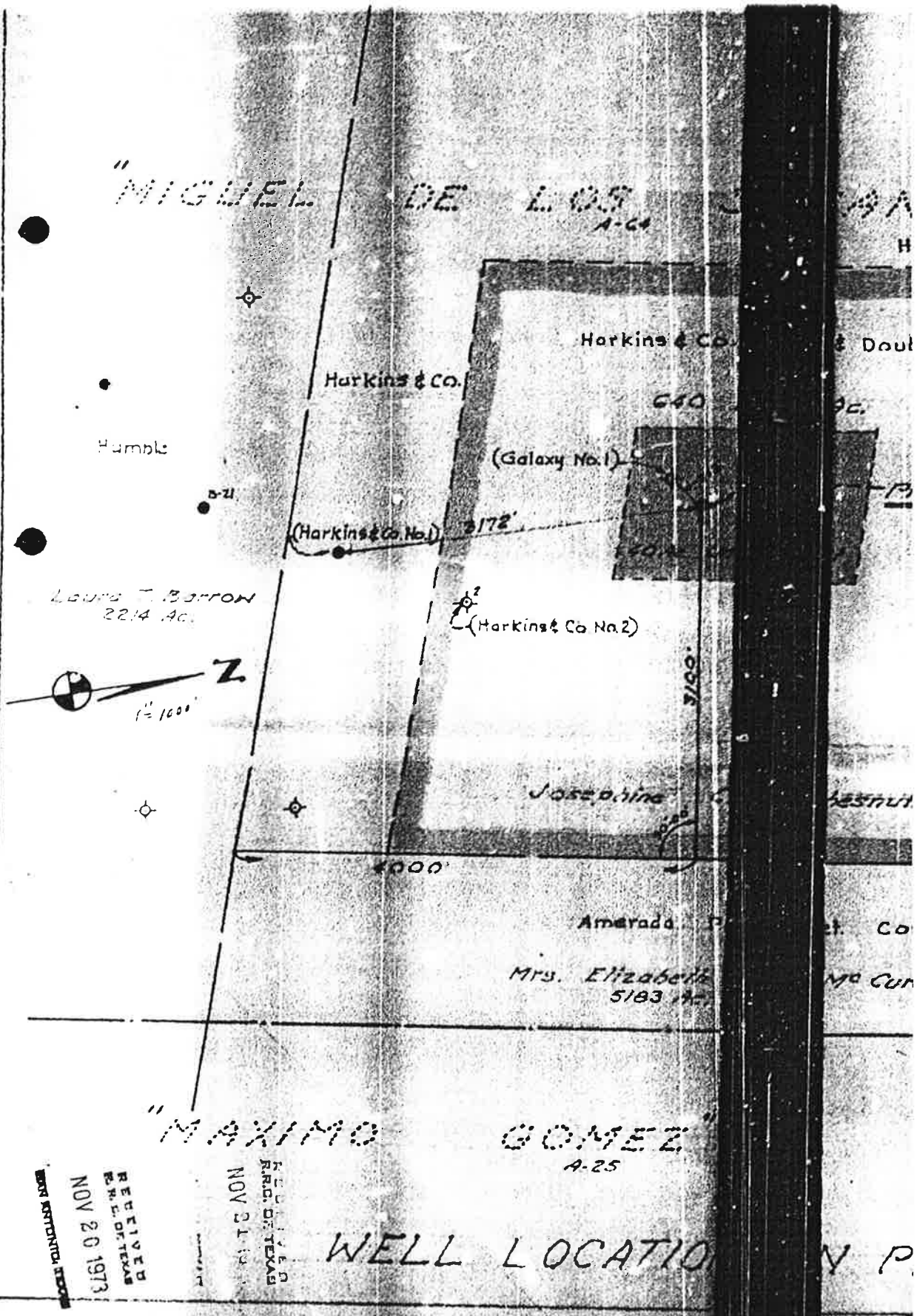
REMARKS: 3172' FWL and 3100' FSL of the Josephine
Chesnutt Heirs Lease
3000' North of Laura Thompson Pld.

Signature Annie Deer
Annie Deer
Prod. Clerk
Title
11-19-73
Date
Telephone: Area Code 512 664-3427

OK
D

- OVER -

D-25800 30257 1-11

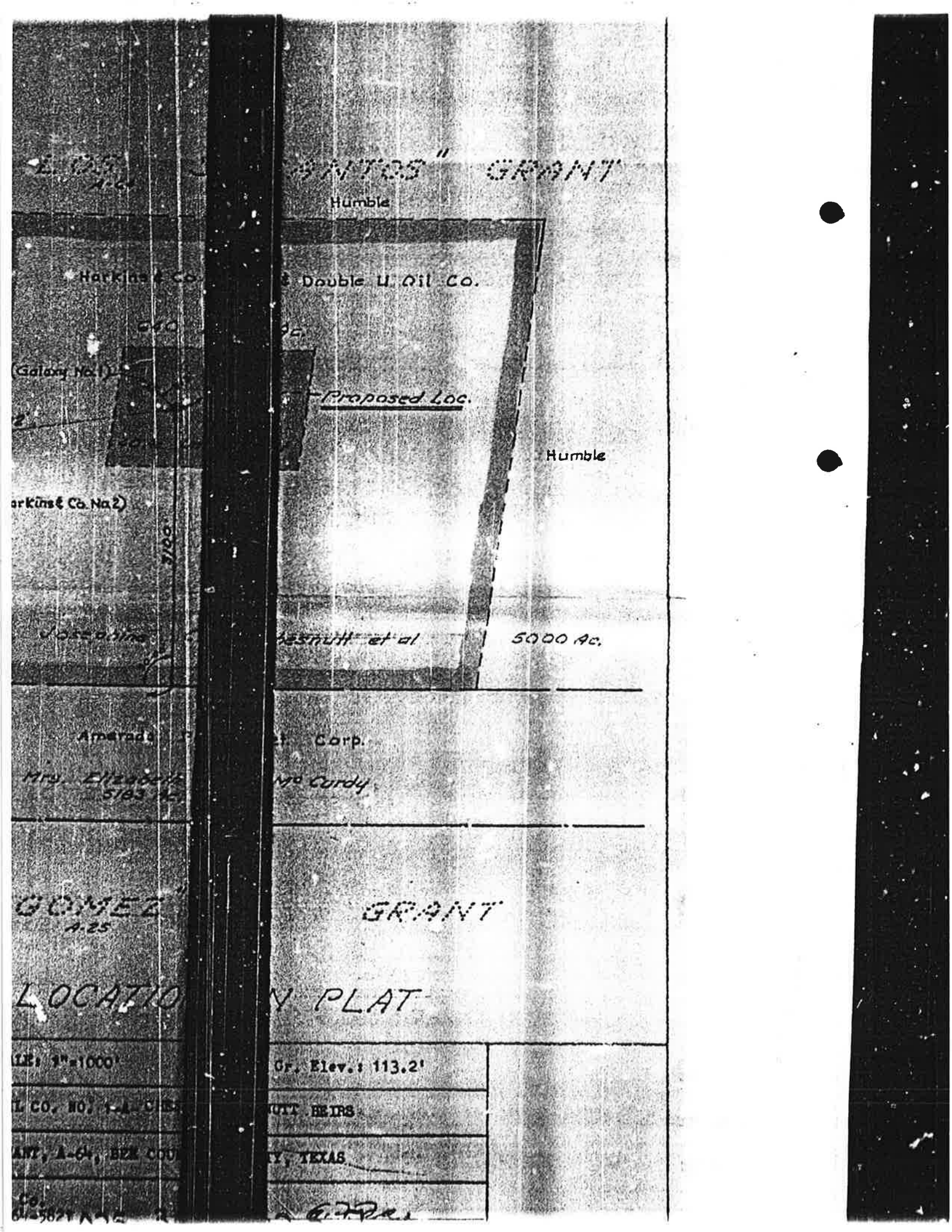


DATE: Nov. 8, 1973 SCALE: 1"=1000' Gr. Elev

NAME: HARKINS & CO. & DOUBLE "U" OIL CO. NO. 1-A CHE

LOCATION: "MIGUEL DE LOS SANTOS" GRANT, A-64, BEE COU

SURVEYED BY: W. W. Coyn Engineering Co.


A-64
Humble
Harkins & Co.
Double U. Oil Co.
(Galaxy No. 1)
Proposed Loc.
Humble
arkins & Co. No. 2)
3100'
Amerada
Corp.
Mrs. Elizabeth
5183 Ac.
Mc Curdy
A-25
GRANT
LOCATION PLAT
Gr. Elev.: 113.2'
HEIRS
TEXAS

MAP ID #18

API# 42-025-02472
DRY HOLE

(18)

Please refer to File No. 30023

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

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SEP 29 1950
OIL & GAS DIVISION
RAILROAD COMMISSION OF TEXAS
REFUGIO, TEXAS

NOTICE OF INTENTION TO DRILL OR DEEPEN

IS THIS AN APPLICATION TO DRILL OR DEEPEN? Drill

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH LOCATED

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin operation on any location before filing Form 1, and do not begin operations on any location not conforming to the spacing rules for such location until you receive written order from the Commission granting permission.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of the lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 400 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 330' from W.L. & [redacted] from S.L. of 1000 acre lease.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease None feet

This notice must be delivered to Deputy Supervisor of your District before drilling, or deepening, five full days prior to spudding in.

Date September 6th, 1950.

Name of company or operator

Name Selby-Walker Corporation

Address P.O. Box 1618

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Mrs. Josephine Chernosky

Number of Acres 1,000 Well No. 1

Number of wells on lease None

Survey Miguel De Los Santos, A-61

Elevation 140 (Above Sea Level) Feet

Section No. None Block No. None

Located in [redacted] Wildcat Field

(If Wildcat state above)

Refugio County

9½ Miles S. & W. direction from nearest postoffice or town.

Rotary or Cable Tools Rotary

Date work will start drilling Immediately

Depth to which you propose to drill 3000 feet.

Date work will start deepening

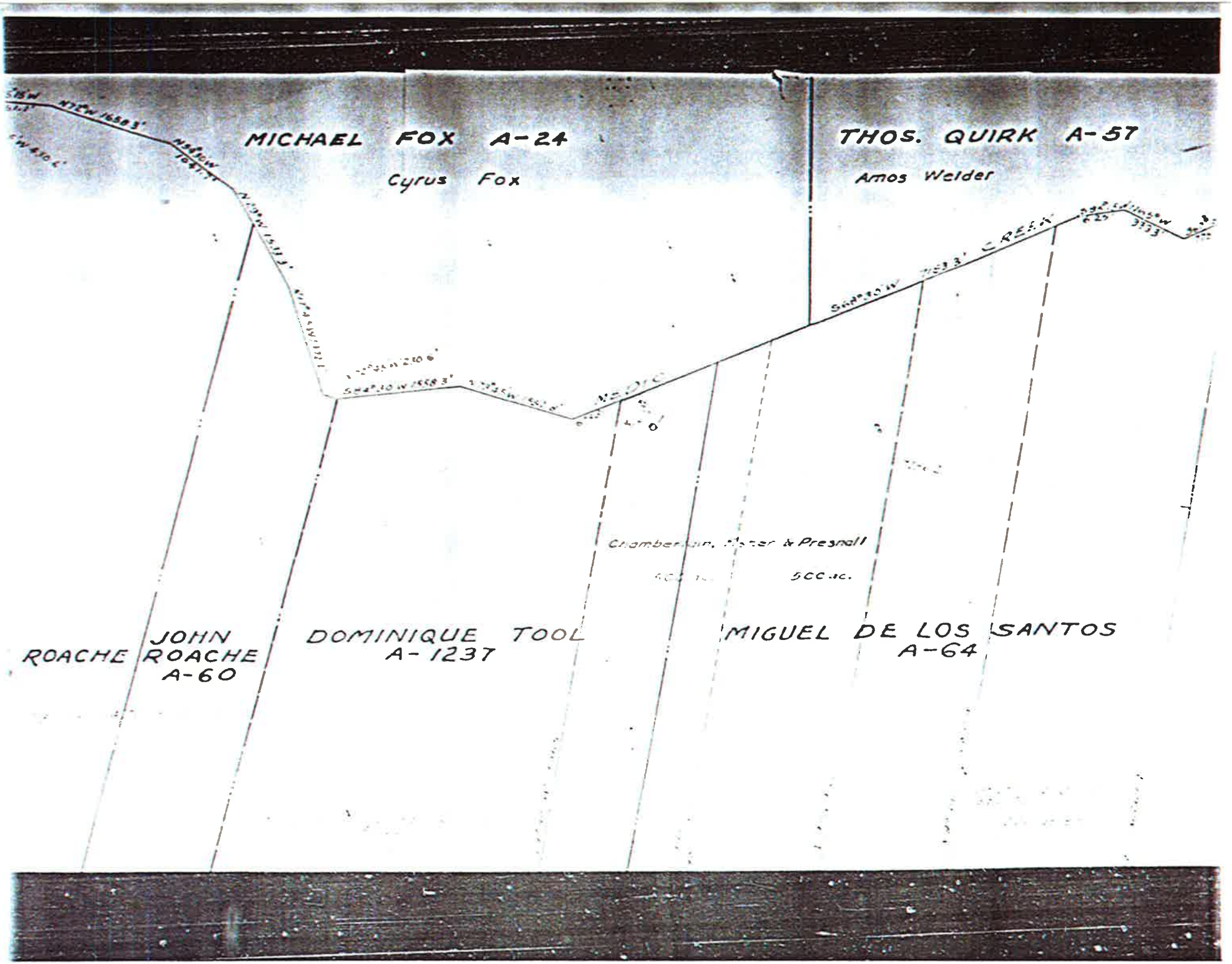
If Lease Purchased with one or more wells drilled, From Whom Purchased?

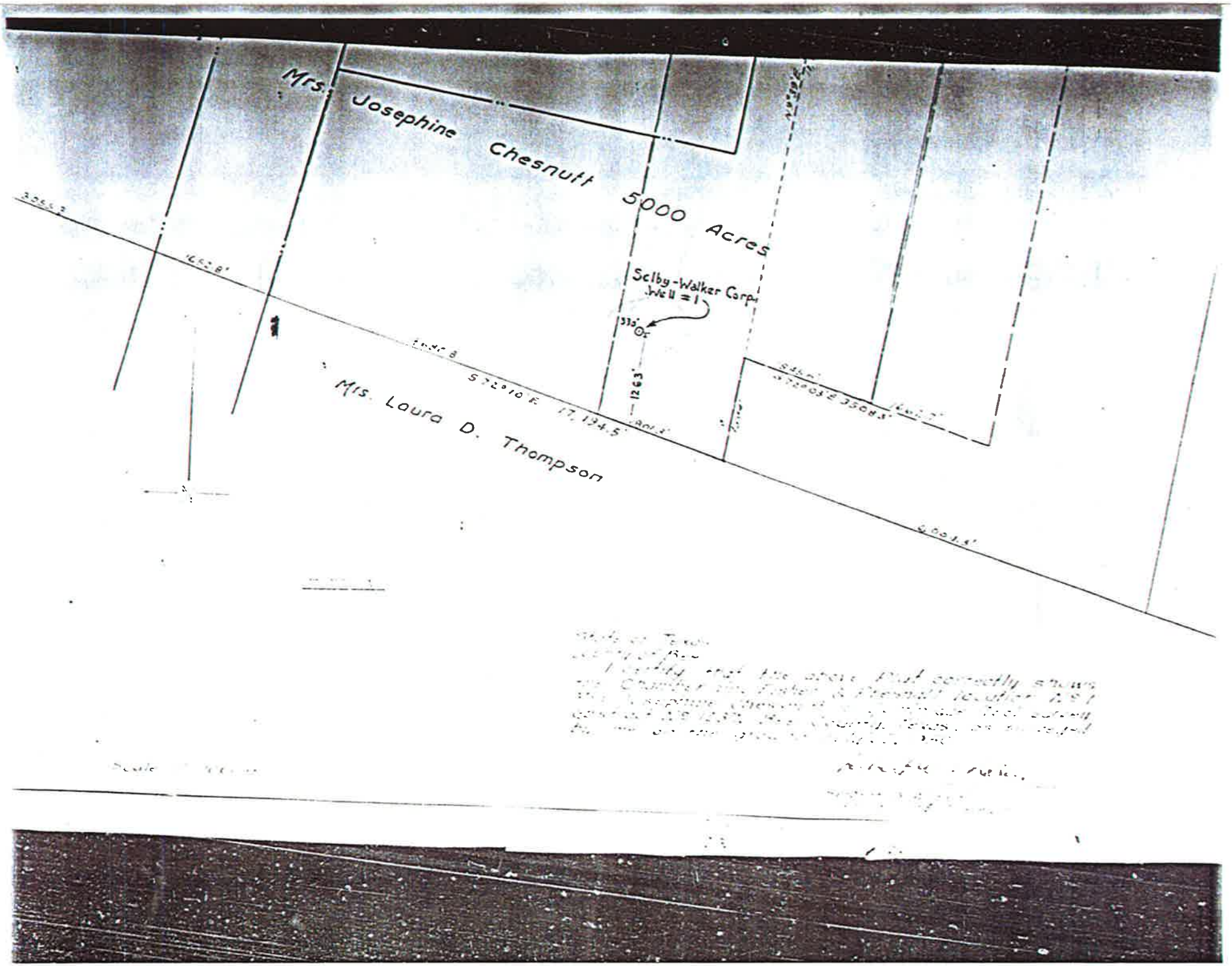
Name

Address

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE


MICHAEL FOX A-24
Cyrus Fox
THOS. QUIRK A-57
Amos Welder
CREEK
Chamberlain, Mayer & Presnall
500 ac.
ROACHE
JOHN ROACHE A-60
DOMINIQUE TOOL A-1237
MIGUEL DE LOS SANTOS A-64


Mrs. Josephine Chesnutt
5000 Acres
Selby-Walker Corp.
Well #1
513'
1263'
Mrs. Laura D. Thompson
S 72°10' E 17,194.5'
S 72°03' E 350 ft.

30023

Please Refer to File No.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A

APPLICATION TO PLUG AND WELL RECORD
FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Name of Company or Operator Selby-Walker Corporation Address P. O. Box 1218 Corpus Christi

County Bee Survey Miguel De Los Santos A-64 Blk. Sec.

Name of Lease Mrs. Josephine Chesnutt No. of Acres 1000 Well No. 1 Elev. 138

Located 9½ Miles SW Direction from Blanconia, Texas (Nearest P. O. or Town)

Name of Field in which well is located Wildcat

Form 1, "Notice of Intention to Drill," was filed in name of Selby-Walker Corporation

Drilling Commenced 10-2-50, 19 , Drilling Completed 10-21-50, 19

Has this well ever produced oil? no or Gas? no

Character of Well (Oil, Gas or Dry) Dry Total Depth 5486

Date you wish to Plug 10-21-50, 19

Name of Party Plugging Well Sparton Tool & Ser. Co. Address Alice, Texas

Correspondence regarding this well should be sent to: Name Selby-Walker Corporation, P. O. Box 1218

Address Corpus Christi, Texas

CASING RECORD

SIZE	PUT IN WELL Ft.	PUT IN WELL In.	PULLED OUT Ft.	PULLED OUT In.	LEFT IN WELL Ft.	LEFT IN WELL In.	PACKERS AND SHOES
10-3/4"	631.67		none		631.67		Baker Comb. Guide & Float

IF CASING WAS CEMENTED GIVE NUMBER OF SACKS USED ON DIFFEREN

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OIL & GAS DIVISION
TEXAS RAILROAD COMMISSION
REFUGIO, TEXAS

Initial Production of Gas: Volume (MCF) none 24 hrs. Pressure none

Initial Production of Oil: Barrels none

Give notice before Plugging to all available Lease Owners, as required by Rule (10). yes

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained as to total depth, casing record, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks: We hereby certify that sufficient surface casing was set and cemented from top to bottom and cement plug placed so as to shut off all fresh water strata.

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Surface clay and sand	0	114	
Sand, Shale and Caliche	114	650	
Shale w/ sand streaks	650	2221	
Hard Sand Stks w/ limey sh	2221	2547	
Sand with shale streaks	2547	2840	
Hard sand w/ shale stks	2840	2966	
Sandy Sh and soft sand	2966	3035	
Hard sand W/ sndy sh strks	3035	3549	
Soft sand	3549	3654	
Shale, firm sand and Sh	3654	3687	
Stickey shale	3687	3735	
Shale w/ sand streaks	3735	3950	
Hard sandy sh w/ sd strks	3950	4055	
Sand	4055	4071	
Shale and sandy shale	4071	4277	
Cored Shale	4277	4409	
Shale and sandy shale	4409	4842	
Shale & shells	4842	4850	
Shale w/ sandy strks	4850	4937	
Shale w/ hard limey stks	4937	5031	
Stickey shale	5031	5150	
Shale	5150	5331	Cored
Sandy Shale	5331	5340	"
Sand	5340	5372	"
Sand	5372	5381	
Sandy Sh and Sd stcks	5381	5482	
Hard sand w/ Hd Sandy Sh	5382	5441	
Sandy shale	5441	5448	
Broken sand	5443	5486	

Method of shutting off water Cement plug ..... Is water completely shut off? yes

Amount of water with oil none per cent

I, Galloway Selby being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Galloway Selby

V.P. of Selby-Walker Corporation Representative of Company.

Subscribed and sworn to before me this 25th day of October, 1950

R. L. Foltz

Notary Public

Nueces County, Texas

Please Refer to File No. 2-0023

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Selby-Walker Corporation Address Box 1218, Corpus Christi, Texas

Sec. No. Block No. Survey Miguel De Los Santos A-64 County Bee

Well No. 1 Name of Lease Mrs. Josephine Chesnutt No. of Acres 1000

Name of Field in which well is located Wildcat Date well was plugged 10-21-50, 19

Character of Well at the time of completion: Oil (Initial Production) bbls.; Gas (Initial Production) Cu. ft.; Dry x

Amount well producing when plugged: Oil none bbls.; Gas none Cu. ft.; Water none bbls.

Has this well ever produced oil or gas? no

Total Depth 5486 feet. Top of each producing sand feet

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? yes

How was mud applied? Pumped into the open hole through the drill stem

Were plugs used? yes. If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depths placed. Also amount of cement and rock. Was well shot? no

75 sack cement plug placed in well via Sparton Tool Company from 1476' to 1600'
10 Sacks in top of surface casing

Show depth found and thickness of all water, oil and gas formations

Have all abandoned wells on this lease been plugged according to Commissions rules? yes

Manner of confining all oil, gas or water to strata: Hole filled with mud and cement plug spotted between salt water and fresh water horizens

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:

Stanolind Oil & Gas Company, Milam Building, San Antonio, Texas
Mrs. Laura D. Thompson, Beeville, Texas
Humble Oil & Refining Company- Driscoll Bldg., Corpus Christi, Texas
Mrs. Josephine Chesnutt, Kenedy, Texas

Was notice given before plugging to all available adjacent lease owners as required by Rule 16? yes

I, Galloway Selby, being first duly sworn on oath, state that I have knowledge of the facts and the matters herein set forth and that the same are true and correct.

Name Galloway Selby
Selby-Walker Corporation

Subscribed and sworn to before me this 25th day of October, 50

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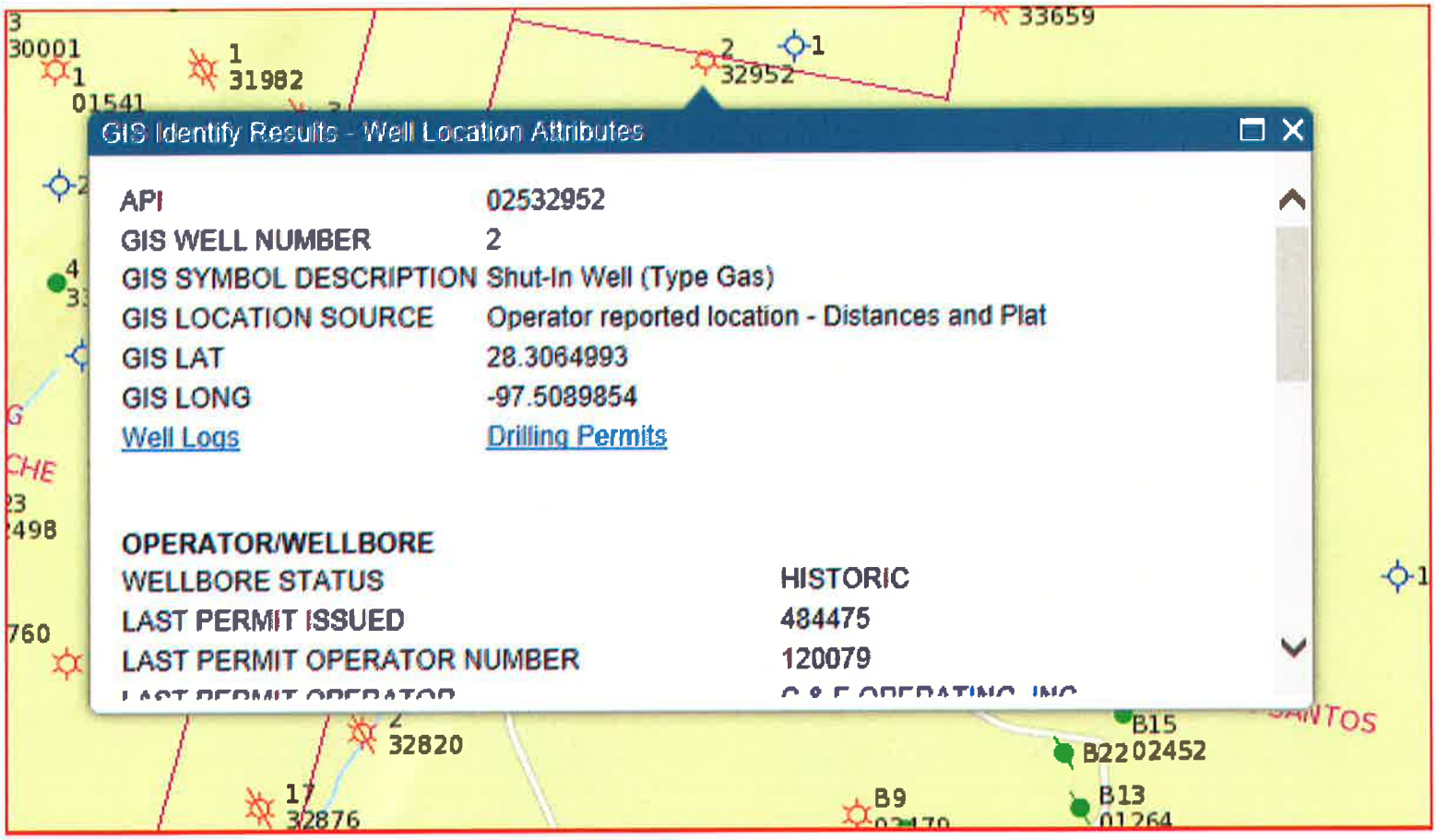
OCT 27 1950
OIL & GAS DIVISION
TEXAS RAILROAD COMMISSION
REFUGIO, TEXAS

Name Selby-Walker Corporation
P. O. Box 1218
Corpus Christi, Texas

MAP ID #19

API# 42-025-32952
GAS WELL
SHUT IN


GIS Identify Results - Well Location Attributes
API 02532952
GIS WELL NUMBER 2
GIS SYMBOL DESCRIPTION Shut-In Well (Type Gas)
GIS LOCATION SOURCE Operator reported location - Distances and Plat
GIS LAT 28.3064993
GIS LONG -97.5089854
Well Logs
Drilling Permits
OPERATOR/WELLBORE
WELLBORE STATUS HISTORIC
LAST PERMIT ISSUED 484475
LAST PERMIT OPERATOR NUMBER 120079
30001
01541
31982
32952
33659
32820
32876
B15
B22
02452
B9
B13
01264

Received
RRC of Texas
OCT 18 2013
Oil & Gas Division
San Antonio, Texas

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. 42-025-32952 (if available)

1. RRC District: 02

4. RRC Lease or Id. Number: 174447

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records): Heard Ranch (4800)

3. Lease Name: J.W. Hughes FLP

5. Well Number: 2

6. OPERATOR: C & E Operating, Inc.

6a. Original Form W-1 Filed in Name of:

10. County: Bee

7. ADDRESS: 345 Commerce Green Blvd.
Sugar Land, Texas 77498

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 05/13/1999

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3373.9 Feet From South Line and 7377.8 Feet From West Line of the J.W. Hughes FLP Lease

12. Permit Number: 484475

9a. SECTION, BLOCK, AND SURVEY: Miguel De Los Santos A-64

9b. Distance and Direction From Nearest Town in this County: 12 miles NW from Woodsboro

13. Date Drilling Commenced: 05/15/1999

16. Type Well (Oil, Gas, Dry): Gas

Total Depth: 5400

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 07/22/1999

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 08/23/2013

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	8/23/13	8/23/13	8-23-13	8-23-13	8-23-13			
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2			
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	3450	1575	1100	617	14			
*22. Sacks of Cement Used (each plug)	20	15	20	20	5			
*23. Slurry Volume Pumped (cu. ft.)	21.2	15.9	21.2	21.2	5.3			
*24. Calculated Top of Plug (ft.)	3250	1475	1000	517	4			
25. Measured Top of Plug (if tagged) (ft.)		1460						
*26. Slurry Wt. #/Gal.	16.4	16.4	16.4	16.4	16.4			
*27. Type Cement	H	H	H	H	H			

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	567	563	12 1/4
4 1/2	10.5	3866	3962	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

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RRC OF TEXAS
OCT 31 2013
OIL & GAS WELL COMPLIANCE
AUSTIN, TX

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 3546	TO 3562	FROM	TO
FROM 3490	TO 3510	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

RECEIVED
RRC OF TEXAS
MAY 12 2016
INFORMATION SERVICES
AUSTIN TX

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Rockwell Services
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Banning — REPRESENTATIVE OF COMPANY
Office Manager — TITLE
10/15/2013 — DATE
Phone 361 741-3600 — A/C NUMBER

MAPPING

adrian 10/28/13
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

3-5-14

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? Circulate

33. Mud Weight 10.0 LBS/GAL

34. Total Depth 5400

Depth of Deepest Fresh Water 1525

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	1050

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well

Roywell Services, 200 US Hwy 183, Refugio, TX 78377

Date RRC District Office notified of plugging 08/22/2013

38. Name(s) and Address(es) of Surface Owners of Well Site

Stuart Sasser
45 Hewit Place
Corpus Christi, Texas 78404

39. Was Notice Given Before Plugging to the Above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev 4/1/83

Type or print only

483-047

API No 42-025 32952

7 RRC District No: 02

8 RRC Gas ID No.: 174447

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Heard Ranch 4800

2 LEASE NAME: J.W. Hughes F.L.P.

9 Well No: 2

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.

RRC Operator No: 120079

10 County of well site: Bee

4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, TX 77478

11 Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [X]

5 Location (Section, Block, and Survey): Miguel DeLosSantos A-64

5b Distance and direction to nearest town in this county: 12 miles NW of Woodsboro

6. If operator has changed within last 60 days, name former operator:

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13. Pipe Line Connection: NA

14. Completion or recompletion date: 7/22/99

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [ ] No

16 Type of Electric or other Log Run.: Induction

Section I — GAS MEASUREMENT DATA

Date of Test:

Gas Measurement Method (Check One)
Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1										
2										
3										
4										

Return to Records Retention

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg Shut-In Temp	Bottom Hole Temp
	Deg. API	RECORD CONFIRMATION CF/bbl	G_{mix} =	°F	°F @ (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\quad}$ = DEC 22 1999 $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = $\frac{\sqrt{GL}}{C}$ = = =

RECEIVED R.R.C. OF TEXAS AUG 05 1999 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Run No	Time of Run Min	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_w/P_1
Shut-In								
1								
2								
3								
4								

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In							
1							
2							
3							
4							

Angle of Slope
θ .....
n .....
Absolute Open Flow
..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester | Name of Company | RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Brun — President — 8/3/99 — Tel: (361)741-3600

Signature: Operator's representative — Title — Date — A/C Number

CASING 143

025-32952

052-33625 VALID PERMIT fmc

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

SEP 15 1999

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — PERMIT NO. 5/13/99 484475
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of

20. Number of producing wells on this lease in this field (reservoir) including this well

21. Total number of acres in this lease: 5200

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 5/15/99 Completed 7/22/99

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 3373.9 Feet From south Line and 7377.8 Feet from west Line of the J.W. Hughes F.L.P. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 121.2

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: NA

28. Total Depth: 5400

29. P. B. Depth: 3834

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. [ ] Dt. of Letter; Railroad Commission (Special) [X] Dt. of Letter 5/14/99

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X; Cable Tools

34. Name of Drilling Contractor: Price Drlg. Co.

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	567	--	350 A	12¼	surface	680
4½	10.5	3866	--	776 A&H	7 7/8	surface	1349

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	3467	3467

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
NA	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

Depth Interval	Amount and Kind of Material Used
3546 - 62'	Perf 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	3140		
Vicksburg	5210		

REMARKS: Non-productive. Will convert to salt water disposal well for Hughes lease.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat)	2. LEASE NAME: J.W. Hughes F.L.P.
3. OPERATOR: C&E Operating, Inc.	6. RRC District: 02
4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, Texas 77478	7. RRC Lease Number. (Oil completions only)
5. LOCATION (Section, Block, and Survey): Miguel De Los Santos A-64	8. Well Number: 2
	9. RRC Identification Number (Gas completions only)
	10. County: Bee

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
282	282	0.50	0.87	2.45	2.45
870	588	0.25	0.44	2.59	5.04
1655	785	0.50	0.87	6.83	11.87
2600	945	0.50	0.87	8.22	20.09
3560	960	0.75	1.31	12.58	32.67
3859	299	0.75	1.31	3.92	36.59
4592	733	1.25	2.18	15.98	52.57
5400	808	1.25	2.18	17.61	70.18

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If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 5400 feet = 70.18 feet.

*19. Inclination measurements were made in — ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 3373.9 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Richard B. Shaw
Signature of Authorized Representative

Richard B. Shaw President
Name of Person and Title (type or print)

Price Drilling Company
Name of Company

Telephone: 512 256-3363
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Terry L. Boening
Signature of Authorized Representative

Terry L. Boening, President
Name of Person and Title (type or print)

C&E Operating, Inc.
Operator

Telephone: 361 741-3600
Area Code

Railroad Commission Use Only:

Approved By: Kenneth Schnabel Title: Geologist Date: 8-10-99

* Designates items certified by company that conducted the inclination surveys.

RECORD OF INCLINATION (Continued from reverse side)

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)

Cementer. Fill in shaded areas.
Operator. Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3. RRC District No	4. County of Well Site
C & E OPERATING, INC.	120079	02	BEE

5 Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7 Drilling Permit No
Heard Ranch	42- 025 32952	484475

8 Lease Name	9 Rule 37 Case No	10. Oil Lease/Gas ID No.	11 Well No.
J.W. Hughes F.L.P.			#2

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		05/16/99					
13 •Drilled hole size		12-1/4					
•Est % wash or hole enlargement		30					
14 Size of casing (in. O D)		8-5/8					
15 Top of liner (ft.)							
16 Setting depth (ft.)		567					
17 Number of centralizers used		5					
18 Hrs waiting on cement before drill-out		12					
1st Slurry	19. API cement used No. of sacks ▶	230					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt					
2nd Slurry	No. of sacks ▶	120					
	Class ▶	A					
	Additives ▶	CaCl2					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu ft) ▶	513					
	Height (ft) ▶	1243					
2nd	Volume (cu ft.) ▶	167					
	Height (ft) ▶	405					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft.) ▶	680					
	Height (ft) ▶	1647					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

T.N.R.C.C. LETTER DATED 6-24-99
Depth 1650, 900' ft. 5-14-99
13 (A) [illegible]
Surface Casing 850' ft.
D.V. @ ft.

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22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Larry Langley, Service Supervisor	BJ Service	Larry Langley
Name and title of cementer's representative	Cementing Company	Signature

411 Hartman Road	Victoria, TX 77905	361-576-6446	05/16/99
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening	President	Terry L. Boening
Typed or printed name of operator's representative	Title	Signature

345 Commerce Green Blvd., Sugar Land, TX 77478	(361)741-3600	8/3/99
Address City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No.	3. RRC District No.	4. County of Well Site
C & E OPERATING, INC.	120079	02	BEE

5 Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
	42- 025 32952	484475

8 Lease Name	9. Rule 37 Case No	10. Oil Lease/Gas ID No.	11. Well No.
J.W. HUGHES FLP			#2

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				05/20/99			
13 •Drilled hole size				7-7/8			
•Est % wash or hole enlargement				15			
14 Size of casing (in O.D.)				4-1/2			
15 Top of liner (ft.)							
16 Setting depth (ft.)				3866			
17 Number of centralizers used				9			
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used: No. of sacks ▶			406			
	Class ▶			A			
	Additives ▶			Salt			
2nd Slurry	No. of sacks ▶			370			
	Class ▶			H			
	Additives ▶			Salt			
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu ft) ▶			905			
	Height (ft) ▶			3973			
2nd	Volume (cu. ft.) ▶			444			
	Height (ft.) ▶			1949			
3rd	Volume (cu ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			1349			
	Height (ft.) ▶			5922			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

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22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Tony Cano, Service Supervisor — Name and title of cementer's representative
BJ Services Co. — Cementing Company
Tony Cano — Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
361-575-6446 — Tel.: Area Code Number
05/20/99 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Terry L. Boening — Signature

345 Commerce Green Blvd., Sugar Land, TX 77478 — Address, City, State, Zip Code
(361)741-3600 — Tel.: Area Code Number
8/3/99 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Please Read Instructions

ELECTRIC LOG STATUS REPORT

FORM L-1

Rev. 12/88

INSTRUCTIONS

When to file the L-1

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period of confidentiality has not yet expired

When the L-1 is NOT required

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas, and geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to file the L-1

- with the appropriate Commission district office

Filling out the L-1

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such a log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SEE REVERSE SIDE

SECTION I. IDENTIFICATION

Operator Name: C&E Operating, Inc.	District No.: 02	Completion Date: 7/22/99
Field Name: Heard Ranch	Drilling Permit No.: 484475	
Lease Name: J.W. Hughes F.L.P.	Lease/ID No.:	Well No.: 2
County: Bee	API No.: 42 - 025 32952	

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SECTION II. LOG STATUS (complete either A. or B.)

☐ A. BASIC ELECTRIC LOG NOT RUN

☒ B. BASIC ELECTRIC LOG RUN (select one)

- ☒ 1. Confidentiality requested.
- ☐ 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- ☐ 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- ☐ 4. Log attached to (select one)
  - ☐ (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____.
    Check here if attached log is being submitted after being held confidential ☐.
  - ☐ (b) Form P-7, Application for Discovery Allowable and New Field Designation.
  - ☐ (c) Form W-4, Application for Multiple Completion: lease or ID no.(s) _____, well no.(s) _____.

Terry L. Boening
signature

President
title

Terry L. Boening
name (print)

(361) 741-3600
phone

8/3/99
date

For Railroad Commission use only

Electric Log Filing Requirements

As required by statute (T.N.R.C. Chapter 91, Subchapter M) and defined by Statewide Rule 16 (see copy below), a legible, unaltered final copy of a basic electric log run on a well must be filed with the completion report for that well (Form W-2 and Form G-1) or the plugging report for that well if it is a dry hole (Form W-3). The electric log will become a part of the public record.

You may, however, request a one-year period of confidentiality during which the log will be kept in your possession. Prior to the expiration of the initial period of confidentiality, you may request a renewal for a two-year period. Logs of wells drilled on land submerged in State water may be granted an additional two-year extension. At the end of the period(s) of confidentiality, a copy of the basic electric log must be filed with the Commission. The Commission will send you a notice prior to expiration of the confidentiality period(s). NOTE: **electric logs submitted in conjunction with an application for multiple completion or a new field designation are considered part of the public records; confidentiality cannot be granted them.**

§3.16 RULE 16. Log and Completion or Plugging Report. (Effective February 28, 1986)

(a) The owner or operator of an oil, gas or geothermal resource well, within thirty (30) days after the completion of such well or the plugging of such well, if the well is a dry hole, shall file with the Commission the appropriate completion or plugging report, and if a basic electric log is run on the well, a legible, unaltered final copy of such log shall be attached. A "basic electric log" means a lithology, porosity, or resistivity log run over the entire wellbore or in the alternative, if no such log is run over the entire wellbore, the log which is the most complete of such logs run. Amended completion reports must be filed for any change in perforations, or openhole or casing records within thirty (30) days after recompleting the well. In addition, if the well is deepened, a copy of a basic electric log run after September 1, 1985 should be submitted if such log is run over a deeper interval than the interval covered by a basic electric log already on file with the Commission for that wellbore.

(b) Each log filed with the Commission shall be considered public information and shall be available to the public during normal business hours. If the owner or operator of such well described in subsection (a) of this section desires log(s) to be confidential, the owner or operator must submit a written request for a delayed filing of the log(s). When filing such a request, the owner or operator must retain the log(s) and may delay filing such log(s) for one (1) year beginning from the date the completion or plugging report is required to be filed with the Commission. The owner or operator of such well may request an additional filing delay of two (2) years, provided the written request is filed prior to the expiration date of the initial confidentiality period. If a well is drilled on land submerged in state water, the owner or operator may request an additional filing delay of two (2) years so that a possible total filing delay of five (5) years may be obtained. A request for the additional two (2) year filing delay period must be in writing and be received prior to the expiration of the first two (2) year filing delay. Logs must be filed with the Commission within thirty (30) days after the expiration of the final confidentiality period.

(c) If the logs are not filed in accordance with the provisions of this section, the Commission may refuse to assign an allowable to a well or may set the allowable for such well at zero. If the well is a dry hole and the logs are not filed in accordance with the provisions of this section, the Commission may initiate penalty action pursuant to Title 3 of the Texas Natural Resources Code.

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
* Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

169

EXPEDITE

problem [illegible]

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32952
▶ Permit No. 484475
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 345 Commerce Green Blvd. Sugar Land, Texas 77478

943730

6. Lease Name (32 spaces maximum): J.W. Hughes F.L.P.
7. RRC Lease/ID No.:
8. Well No.: 2
9. Total Depth: 5600

10. Location
• Section ____ Block ____ Survey Miguel LeLosSantos Abstract No. A-64
• This well is to be located 12 miles in a NW direction from Woodsboro, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 3373.9 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5200 (OUTLINE ON PLAT.)

Granted 5/13/99

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 5600') 4001	5600	467/1200	40	40	No	NA	O/G	1	1
Heard Ranch (4800')	4800	467/1200	40	40	No	2064	O/G	2	1
40032924		Code A 1200							

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 3373.9' FSL & 7377.8' FWL
• Survey/Section 95.4' FNL & 2440.1' ~~FWL~~ FS'ly WL

Code O 5600

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X]
If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks
Please expedite $150 + $50 = $200

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening, President
Signature — Name and title of operator's representative

5/11/99 — Date: mo. day yr.
(361)741-3600 — Tel.: Area Code Number

150.00 app
50.00 app

207471 MAY 1299

• RRC Use Only •

484475

025-32952

Instructions to Form W-1

NOTICE: Review Statewide Rule 5, *Application to Drill, Deepen, Reenter, or Plug Back*, paragraph (c) for eligibility of an organization to file a W-1 application.

A. IMPORTANT: Do not begin drilling operations on any location until you receive a drilling permit from the Commission, and the waiting-clause period, if specified in the permit, has ended.

B. **Organization Report.** Before this application can be processed, a **Form P-5**, Organization Report, showing the exact operator name used on Form W-1, must be on file with the Commission in Austin.

C. **Fee.** With each W-1 application or materially amended W-1 application, the applicant must submit the applicable fee to the Commission in Austin. A check or money order must be made payable to the State Treasurer of Texas. This fee is nonrefundable. An application will be considered materially amended if the amendment requires the issuance of a new permit. A materially amended application includes an application in which an additional field or a change in location or field is sought for a previously permitted well. However, if a new application and/or permit becomes necessary because of Commission action, the fee may be waived.

D. **Surface casing.** Before the Commission will assign an allowable to a well, the operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Water Commission. Before drilling a well where Commission rules do not specify surface casing requirements, the operator must obtain a letter from the Department stating the protection depth. Write: TWC, Surface Casing, P. O. Box 13087, Capitol Station, Austin, Texas 78711-3087.

E. **What to file.** File Form W-1, a plat and the applicable fee in the Commission's Austin office. Send a copy of the W-1 and plat to the RRC District Office that serves the county of the proposed well site.

F. **Plat.** Each W-1 must be accompanied by a neat, accurate plat of the lease or unit which clearly shows the following:

For a REGULAR location (where the proposed site conforms to Commission rules)

- Drilling unit boundary for the proposed location and proration unit boundaries for each producing well on this lease or unit which is completed in the same field. Show the acreage contained in each unit. For Commission purposes, lease or unit acreage must be contiguous unless an exception to Statewide Rule 39 is granted. If a Rule 39 exception has previously been granted for the lease or unit, **attach a copy of the RRC approval.**
- Surface location of the proposed site. If the well is to be directionally drilled, show also the projected bottom-hole location.
- Perpendicular distance to nearest intersecting: (a) lease/unit lines and (b) survey/section lines. To avoid confusion, distinguish between the two sets of lines.
- Distance to nearest applied for, permitted, or completed well on this lease or unit in the same field.
- Section, block, or lot.
- Northerly direction.
- Scale. Where the size of the lease or unit will allow, use a scale of 1" = 1,000'. If it is not practical to show the entire lease or unit on the plat, attach a second plat, drawn to a scale no smaller than 1" = 2,000', to show the entire lease or unit in relation to the patent survey. Enter on Form W-1 (Item 12) the acreage for the entire lease or unit.
- On a pooled unit, outline the entire lease or unit as well as the individual tracts listed on Form P-12, Certificate of Pooling Authority.

For a RULE 37 or RULE 38 Exception (where spacing or acreage is less than prescribed by rule)

- A **certified** plat of the entire lease or unit which includes the information described above; and
- A list of the names and addresses of all offsetting operators or unleased mineral interest owners of each tract which is contiguous to the drill site tract. If you do not have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract, and if the well requires a Rule 37 or 38 exception, list also the name and address of the person who has this right. The list should refer to the plat clearly so as to enable the Commission to readily identify each tract and its operator or mineral owner.

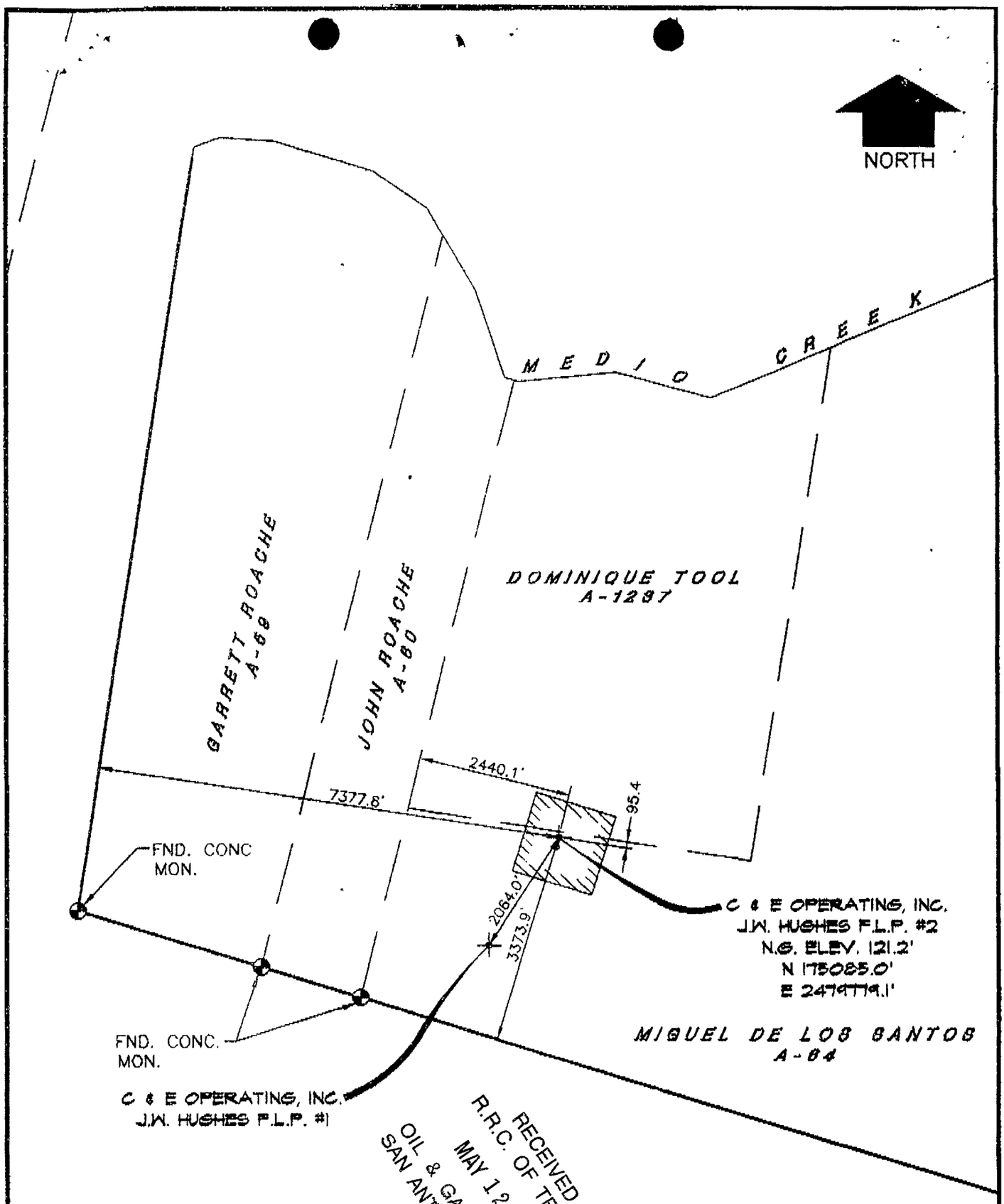
  NOTE: If you penetrate a Rule 37 or 38 zone in which you do not propose to complete at this time, you will not necessarily be allowed to use the existence of this wellbore as justification for an exception to complete this wellbore in such zone in the future.

G. **Specific Items.**

Item 13. **Field name.** Use only field designations, including reservoir, approved by the Commission (not proposed field names). Enter "Wildcat" if the reservoir has no RRC field designation and give the total projected depth under "Completion Depth." If the well is to be drilled in a multi-pay area, list all established and wildcat zones for which a completion is proposed. If necessary, attach additional Form W-1's to list these zones.

Item 15. **Spacing pattern.** If the proposed location of the well is in a field with special field rules, enter the appropriate spacing pattern. If there are no field rules in effect, Statewide Rule 37 spacing applies. Rule 37 requires wells to be spaced at least 467 feet from lease lines and 1,200 feet from other wells completed in the same reservoir and on the same lease, with one well to each 40 acres. However, if the proposed location is in RRC Districts 7B, 9, or in McCulloch County (District 7C), and in a field with no special field rules adopted, a district (or county regular) rule will apply, with special spacing and depth controls for wells drilled to 5,000 feet or above.

Item 16. **Density pattern.** If the proposed location is in a field with special field rules, enter the appropriate density pattern. If there are no field rules in effect, Statewide Rules 37 and 38 apply, allowing one well to each 40 acres. However, if the proposed location is in RRC Districts 7B, 9, or in McCulloch County (District 7C), and in a field with no special field rules adopted, the special spacing and depth controls in Rule 38(b) govern density.



RECEIVED
R.R.C. OF TEXAS
MAY 12 1999
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

TIES TO LEASE LINE
3373.9' FSL
7377.8' FWL

TIES TO SURVEY LINES
95.4' FNL
2440.1' FWL

DISTANCE FROM NEAREST TOWN
12 MI. NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MAY 7, 1999 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

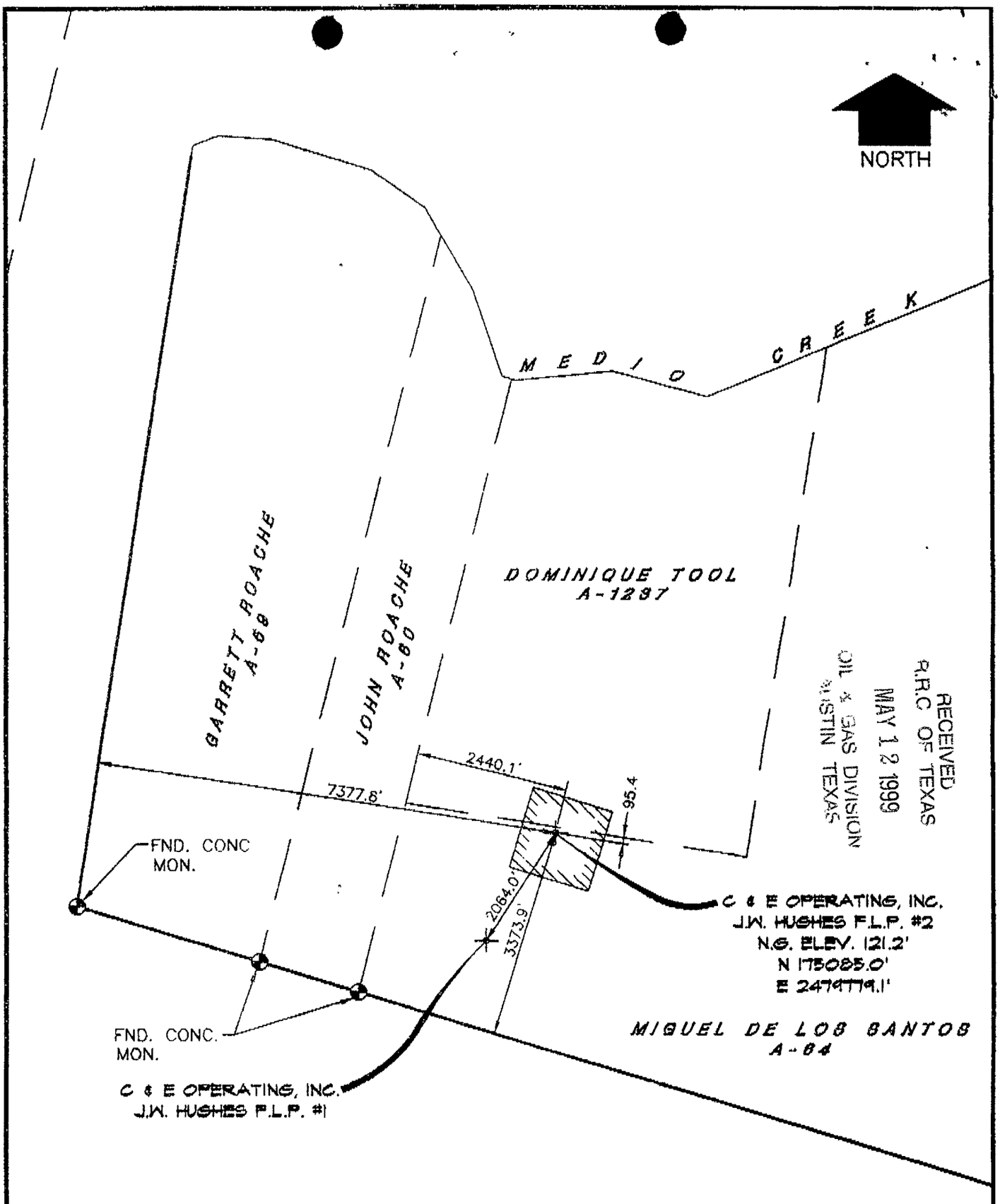
Michael D. Stridde 5-11-99
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE NAD '27

WELL LOCATION
C & E OPERATING, INC.
J.W. HUGHES F.L.P. #2
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

JOB No	9973-522
SCALE :	1" = 2000'
DATE	5/99
DWN BY	CAV

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385



TIES TO LEASE LINE
3373.9' FSL
7377.8' FWL

TIES TO SURVEY LINES
95.4' FNL
2440.1' FWL

DISTANCE FROM NEAREST TOWN
12 MI. NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MAY 7, 1999 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde 5-11-99

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE NAD '27

WELL LOCATION
C & E OPERATING, INC.
J.W. HUGHES F.L.P. #2
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BEE COUNTY, TEXAS

JOB No	9973-522
SCALE	1" = 2000'
DATE	5/99
DWN. BY	CAV

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

MICHAEL L. WILLIAMS,
CHAIRMAN
CHARLES R. MATTHEWS,
COMMISSIONER
TONY GARZA, COMMISSIONER

RICHARD A. VARELA
DIRECTOR, OIL AND GAS DIVISION
DEBBIE LAHOOD
ASST-DIRECTOR, PERMITTING/PROD

1701 N. CONGRESS | CAPITOL STATION - P.O. BOX 12967 AUSTIN, TEXAS 78711-2967 | (512) 463-7288

August 1, 2000

DIST: 02 BEE API NO. 025-32952
HUGHES, J. W. F. L. P. WELL NO. 2
C & E OPERATING, INC.
HEARD RANCH (4800)
RRCID NO. 174447

Dear Operator:

Our records indicate that you requested confidentiality for the basic electric log on the above property. The period of confidentiality is due to expire at the end of this month.

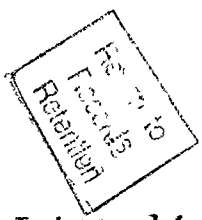
In accordance with Statewide Rule 16, the basic electric log or a request for an extension of two years additional confidentiality must be submitted by the expiration date. Failure to do so will result in your allowable being cancelled and/or penalty action pursuant to Title 3 of the Texas Natural Resources Code.

Please complete the bottom portion and return this letter with the log or as your request for an extension of confidentiality to the above address to the attention of Central Records. If you have any questions, call the Log Desk at (512) 463-6887.

RECEIVED
RRC OF TEXAS
AUG 15 2000
OIL & GAS DIVISION
AUSTIN, TEXAS

Sincerely,

DEBBIE LAHOOD
ASST-DIRECTOR, PERMITTING/PROD
OIL AND GAS DIVISION



Log Interval(s): from to from to

_____ _____ _____ _____

CHECK AS APPROPRIATE

✓ Two-Year Extension of Confidentiality Requested

__ Basic Electric Log Attached

Company/Lease name on log if different from that above:

_____.

* General 1st Renewal Notice (On-shore/Offshore)

MAP ID #20

API# 42-025-32823
OIL WELL
PLUGGED

Received
RRC of Texas
OCT. 18 2013
Oil & Gas Division
San Antonio, Texas

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. 42-025-32823 (if available)

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 08412

2. FIELD NAME (as per RRC Records): Heard Ranch (4800)

3. Lease Name: J.W. Hughes FLP

5. Well Number: 1

6. OPERATOR: C & E Operating, Inc.

6a. Original Form W-1 Filed in Name of:

10. County: Bee

7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77498

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 04/28/1997

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 1386 Feet From south Line and 6541 Feet From west Line of the J.W. Hughes FLP Lease

12. Permit Number: 461614

9a. SECTION, BLOCK, AND SURVEY: Mighes De Los Santos A 64

9b. Distance and Direction From Nearest Town in this County: 7.8 miles east from Skidmore

13. Date Drilling Commenced: 05/02/1997

16. Type Well (Oil, Gas, Dry): Oil

Total Depth: 4246

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 08/26/1997

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 08/20/2013

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	8.20.13	8.20.13	8.20.13	8.20.13				
20. Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½	4½				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2550	1300	850	14				
*22. Sacks of Cement Used (each plug)	20	20	15	05				
*23. Slurry Volume Pumped (cu. ft.)	21.2	21.2	15.9	5.3				
*24. Calculated Top of Plug (ft.)	2320	1100	750	4				
25. Measured Top of Plug (if tagged) (ft.)		1090						
*26. Slurry Wt. #/Gal.	16.4	16.4	16.4	16.4				
*27. Type Cement	H	H	H	H				

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	691	687	12¼
4 ½	10.5	5300	5296	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

RECEIVED
RRC OF TEXAS
OCT 31 2013
OIL & GAS WELL COMPLIANCE
AUSTIN, TX

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
5098	5118		

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Orlando Flores — Signature of Cementer or Authorized Representative

Rogue II Services — Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Bowing — REPRESENTATIVE OF COMPANY

Office Manager — TITLE

10/15/13 — DATE

Phone 361 741-3600 — A/C NUMBER

Edias 10/24/13 — SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? Circulate

33. Mud Weight 10.0 LBS/GAL

34. Total Depth 4246

Depth of Deepest Fresh Water 1250

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	800

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: Roywell Services, 200 US Hwy 183, Refugio, TX 78377

Date RRC District Office notified of plugging: 08/19/2013

38. Name(s) and Address(es) of Surface Owners of Well Site

Stuart Sasser
45 Hewit Place
Corpus Christi, Texas 78404

39. Was Notice Given Before Plugging to the Above? Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

Type or print only

RECEIVED
R.R.C. OF TEXAS
NOV 19 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

FIRST [illegible] ASSOC. FLD,

10/30/98

Form W-2
Rev. 4/1/83
483-046

API No. 42-025 32823

7. RRC District No. 02

8. RRC Lease No. 08412

Oil Well Potential Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Heard Ranch (4800)	2. LEASE NAME: J.W. Hughes FLP	9. Well No.: 1
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.	RRC Operator No.: 120079	10. County of well site: Bee
4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, Texas 77478		11. Purpose of filing: Initial Potential ☐
5. If Operator has changed within last 60 days, name former operator		Retest ☐
6a. Location (Section, Block, and Survey): Miguel de los Santos A-64	6b. Distance and direction to nearest town in this county.: 7.8 miles east of Skidmore	Reclass ☒
12. If workover or reclass, give former field (with reservoir) & gas ID or oil lease no. FIELD & RESERVOIR: Heard Ranch (4800)	GAS ID or OIL LEASE #: 164577 / Oil - O Gas - G: G / WELL NO.: 1	Well record only (explain in Remarks) ☐
13. Type of electric or other log run: Induction	14. Completion or recompletion date: Reclass	

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15. Date of test	16 No. of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)	18. Choke size
10/30/98	24	Flowing	Adjustable

	Oil - BBLS	Gas — MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19. Production during Test Period ▶	220	300	182	1364	750 PSI
20. Calculated 24-Hour Rate ▶	220	300	182	39	0 PSI

21. Was swab used during this test? Yes ☐ No ☒	22. Oil produced prior to test (New & Reworked wells): --	23. Injection Gas—Oil Ratio: --

REMARKS:

Return to Records Retention

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature: Well Tester | Name of Company | RRC Representative

RECORD CONFIRMATION
FEB 08 1999

OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boening
Typed or printed name of operator's representative

President
Title of Person

(512)741-3600
Telephone: Area Code Number

Date: 11 / 16 / 98 (mo. / day / year)

Terry L. Boening
Signature

MAPPING

OK SMU

SECTION II — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☒

25. Permit to Drill, Plug Back or Deepen — DATE 4/28/98 — PERMIT NO. 461614

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

26. Notice of Intention to Drill this well was filed in Name of

27. Number of producing wells on this lease in this field (reservoir) including this well

28. Total number of acres in this lease

29. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced | Completed

30. Distance to nearest well, Same Lease & Reservoir

31. Location of well, relative to nearest lease boundaries of lease on which this well is located — Feet From | Line and | Feet from | Line of the | Lease

32. Elevation (DF, RKB, RT, GR, ETC.)

33. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☐ No

34. Top of Pay | 35. Total Depth | 36. P. B. Depth | 37. Surface Casing Determined by: Field Rules ☐ | Recommendation of T.D.W.R. ☐ Dt. of Letter | Railroad Commission (Special) ☐ Dt. of Letter

38. Is well multiple completion?

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

40. Intervals Drilled by: Rotary Tools | Cable Tools

41. Name of Drilling Contractor

42. Is Cementing Affidavit Attached? ☐ Yes ☐ No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From 5114 To 5118

From To

From To

From To

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS

Reclass only

RECEIVED
R.R.C. OF TEXAS
SEP 16 1997
GAS DIVISION
CANTON, TEXAS

Type or print only
483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42- 025-32823

7. RRC District No. 02
8. RRC Gas ID No. 164577

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Heard Ranch (4800)
2. LEASE NAME: J. W. Hughes FLP
9. Well No.: 1
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
RRC Operator No.: 120079
10. County of well site: Bee
4. ADDRESS: 13333 Soutywest Freeway, Suite 105 Sugar Land, Texas 77478
11. Purpose of filing: Initial Potential [*] Retest [ ] Reclass [ ] Well record only (Explain in remarks) [ ]
5. Location (Section, Block, and Survey): Miguel De Los Snatos A-64
5b. Distance and direction to nearest town in this county.: 7.8 miles East from Skidmore
6. If operator has changed within last 60 days, name former operator
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #
13. Pipe Line Connection: Houston Pipeline
14. Completion or recompletion date: 8/26/97
15. Any condensate on hand at time of workover or recompletion? [ ] Yes [ ] No
16. Type of Electric or other Log Run.: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 8/19/97
Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [V] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]
Gas produced during test: 179 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		12/64	0.802	1740		85.0	0.9768	1.0847	1.0809	1598
2		10/64	0.553	1750		85.0	0.9768	1.0847	1.0811	1108
3		9/64	0.444	1755		85.0	0.9768	1.0847	1.0812	893
4		8/64	0.347	1760		85.0	0.9768	1.0847	1.0814	700

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.510	Deg. API	CF/Bbl	G_{mix} = 0.510	126 °F	177 °F @ 5116 (Depth)

$D_{eff}^{8/3}$ = 6.307
$\sqrt{T_f}$ = $\sqrt{591.000}$ = 24.310
$\sqrt{GL}$ = $\sqrt{2609.160}$ = 51.080
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = 290.065
$\frac{\sqrt{GL}}{C}$ = = 0.176

Return to Records Retention

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			1835	75.0	3367				
1	60	12/64	1740	85.0	3028	281.4	79.2	1762.6	0.9872
2	60	10/64	1750	85.0	3063	195.1	38.1	1760.8	0.9938
3	60	9/64	1755	85.0	3080	157.3	24.7	1762.0	0.9960
4	60	8/64	1760	85.0	3098	123.3	15.2	1764.3	0.9976

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		0.0835	1.1357	1.0994	2017	4068.3	
1	0.9936	0.0822	1.1289	1.0973	1934	3740.6	327.6
2	0.9969	0.0825	1.1290	1.0976	1933	3735.6	332.7
3	0.9980	0.0826	1.1291	1.0978	1934	3741.4	326.9
4	0.9988	0.0827	1.1291	1.0978	1937	3751.7	316.6

Angle of Slope
θ 45.00
n 1.0000
Absolute Open Flow
19842 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester — Target Well Services, Inc. — Name of Company — RRC Representative

RECORD CODIFICATION

OPERATOR'S CERTIFICATION. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boening — Terry L. Boening — President — 9/8/97 — Tel 281/ 265-6500
Signature: Operator's representative — Title — Date — A/C Number

HS 025-32823

VALID PERMIT
PRODUCTION ALLOCATION

SEP 25 1997 7B 461614

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 4/28/97 — PERMIT NO. ~~461164~~
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5,200

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 5/2/97 Completed ~~8/26/97~~

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1586 Feet From South Line and 6541 Feet from West Line of the J. W. Hughes FLP Lease

25. Elevation (DF, RKB, RT, GR ETC.): 129.4'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay	28. Total Depth	29. P. B. Depth	30. Surface Casing Determined by:
5114	4246'	5255'	Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] Dt. of Letter 4/8/97

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools XX Cable Tools

34. Name of Drilling Contractor: Corpus Christi

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. **CASING RECORD (Report All Strings Set in Well)**

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	691	-	310 sx A	12 1/4	surface	558
4 1/2"	10.5	5300	-	445 sx H	7 7/8"	surface	284.5

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	5023'	5023'

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	5114	To	5118
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
5114-5118'	Perf 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	3120'		
Vickburg	5080'		

REMARKS

Cementer Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operators, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)	**6 API No**		**7 Drilling Permit No**
Heard Ranch (4800)	42- 025-32823		461614
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
J.W. Hughes ETAL		164577	#1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		05/09/97					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		25					
14 Size of casing (in O D)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		691					
17 Number of centralizers used		6					
18 Hrs waiting on cement before drill out		8					
1st Slurry	19 API cement used No of sacks ▶	200					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt					
2nd Slurry	No of sacks ▶	110					
	Class ▶	A					
	Additives ▶	$CaCl_2$					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft.) ▶	418					
	Height (ft) ▶	1013					
2nd	Volume (cu ft) ▶	140					
	Height (ft) ▶	339					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶	558					
	Height (ft) ▶	1352					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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SEP 16 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

T.N.R.C.C. LETTER DATED 4-28-97
Depth 1300' ft.
13(A) Exception Dated 5-2-97
Surface Casing 550' ft.
D.V. @ ft.

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30 Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Rick Campbell, Service Supervisor	BJ Services Co.	Rick Campbell	
Name and title of cementer's representative	Cementing Company	Signature	
411 Hartman Road	Victoria, TX 77905	512-575-6446	05/09/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge This certification covers all well data.

Terry L. Boening	Presidident	Terry L. Boening	
Typed or printed name of operator's representative	Title	Signature	
13333 Southwest Freeway, #105	Sugar Land, TX 77478	281/ 265-6500	9/8/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4)

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P 5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)	**6 API No**		**7 Drilling Permit No**
Heard Ranch (4800)	42- 025-32823		461614
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
J.W. Hughes FLP		164577	#1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date						05/16	05/16/97
13 •Drilled hole size						7 7/8	7 7/8
•Est % wash or hole enlargement						15	15
14 Size of casing (in O D)						4 1/2	4 1/2
15 Top of liner (ft)							
16 Setting depth (ft)						1353	5300
17 Number of centralizers used						8	7
18 Hrs waiting on cement before drill-out						-	-
1st Slurry	19 API cement used No of sacks ▶					160	50
	Class ▶					A	H
	Additives ▶					Salt Poz,Gel,	Salt,Gel, Celloseal,R3
2nd Slurry	No of sacks ▶					85	150
	Class ▶					A	H
	Additives ▶					Neat	ASA301,R-3 Salt,FL25,
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶					334.4	104.5
	Height (ft) ▶					1466	458
2nd	Volume (cu ft.) ▶					100.3	180
	Height (ft) ▶					438	789
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶					434.7	284.5
	Height (ft) ▶					1904	1247
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?						Yes	NO

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SEP 16 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in)								
25. Depth to bottom of tubing or drill pipe (ft.)								
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27. Slurry volume pumped (cu. ft)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

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Russell L.Tremaine, Serv.Suprv.	BJ Services Company	Russell L. Tremaine
Name and title of cementer's representative	Cementing Company	Signature

411 Hartman Road	Victoria, TX 77905	512/575-6446	05/16/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data

Terry L. Boening	President	Terry L. Boening
Typed or printed name of operator's representative	Title	Signature

13333 Southwest Freeway,#105	SugarLand, Tx 77478	281/ 265-6500	9/8/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

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F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

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To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32823 ▶ Permit No. 461614 ▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc. 4-25-97
2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478 953535
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): J. W. Hughes FLP
7. RRC Lease/ID No.:
8. Well No.: #1
9. Total Depth: 5500'

10. Location
- Section _____ Block _____ Survey Miguel De Los Santos Abstract No A- 64
- This well is to be located 7.8 miles in a east direction from Skidmore, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 1386 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5200 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 5500') 4001	5500	467/1200	40	40	No	NA	O/G	1	1
Medio Creek (4380) 60198625	4380	467/1200	40	40	No	NA	~~O/G~~	1	1
Heard Ranch (4800) 40032924	4800	467/1200	40	40	No	NA	~~O/G~~	1	1

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit 1386' FSL & 6541' FWL
- Survey/Section 1784' ~~FWL~~ & 1987' F Southerly NL

If a directional well, show also projected bottom-hole location:
- Lease/Unit
- Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]
24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [XX] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ] If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening — Terry L. Boening, President
Signature — Name and title of operator's representative

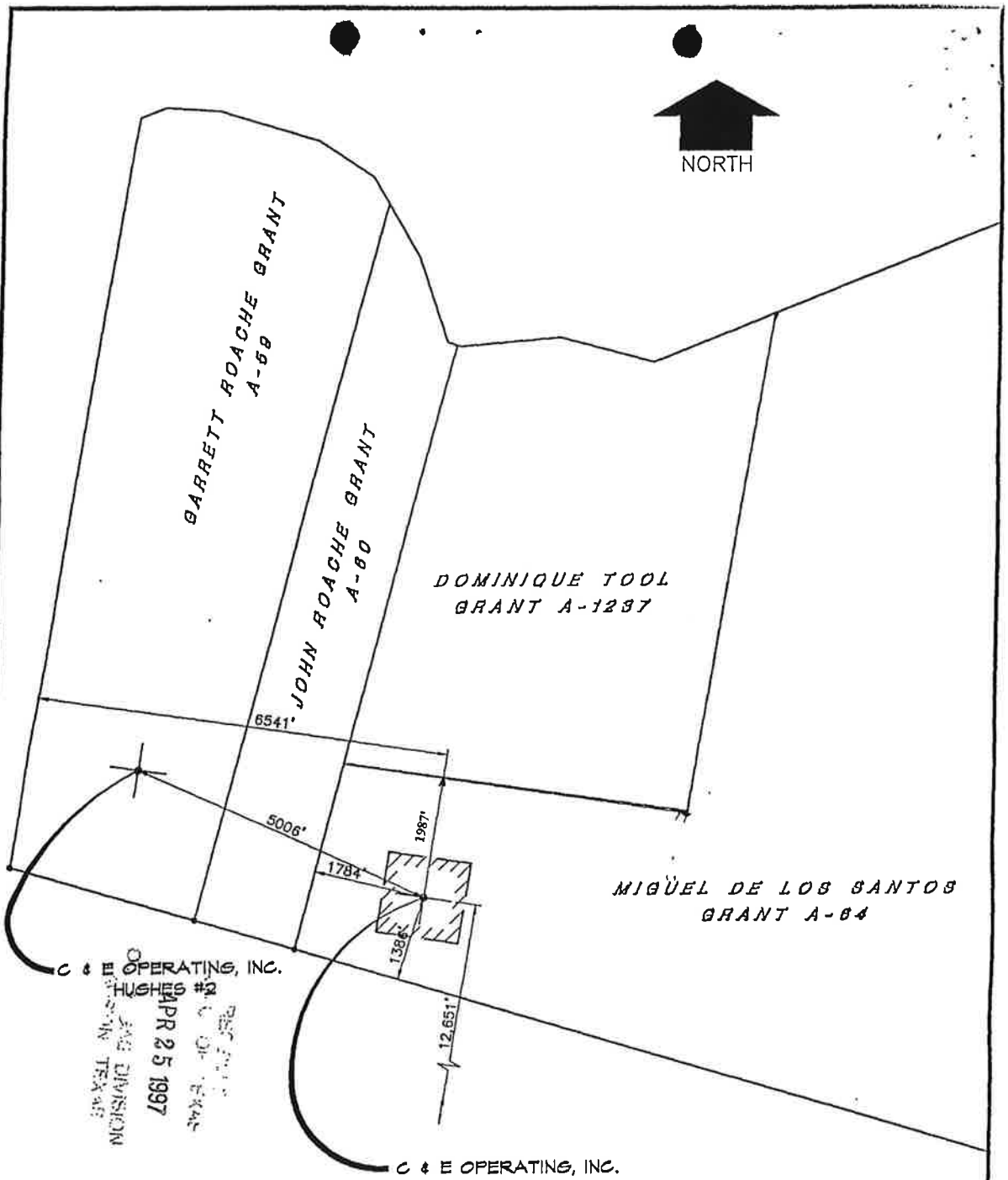
Date: 4 mo. 24 day 97 yr. Tel.: 281/ 265-6500 Area Code Number

RRC Use Only

210723 APR 2597

461614

025-32823



APR 25 1997

TIES TO LEASE LINE
6541' FWL
1386' FSL

TIES TO SURVEY LINES
1784' FWL
12,651 FSL

DISTANCE FROM NEAREST TOWN
12 MILES WNW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON APRIL 10, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

4-21-97
DATE

WELL LOCATION
C & E OPERATING, INC.
HUGHES #1
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

DWG. No. :	9773-508
SCALE :	1" = 2000'
DATE :	4/97
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

MAP ID #21

API# 42-025-33848
PERMIT LOCATION
(No Completion Packet Filed as of 4/27/14)

API No. 42-025-33848	**RAILROAD COMMISSION OF TEXAS** **OIL & GAS DIVISION**	**FORM W-1** 07/2004
Drilling Permit # 750870	**APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER**	Permit Status: Approved
SWR Exception Case/Docket No.	*This facsimile W-1 was generated electronically from data submitted to the RRC.* *A certification of the automated data is available in the RRC's Austin office.*	

1. RRC Operator No.	2. Operator's Name (as shown on form P-5, Organization Report)	3. Operator Address (include street, city, state, zip):
120079	C & E OPERATING, INC.	

4. Lease Name	5. Well No.
HUGHES	1R

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [ ] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth	9. Do you have the right to develop the minerals under any right-of-way ?	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)?
5500	[X] Yes [ ] No	[ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.	12. County	13. Surface Location
02	BEE	[X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 10.7 miles in a NW direction from Skidmore which is the nearest town in the county of the well site.

15. Section	16. Block	17. Survey	18. Abstract No.	19. Distance to nearest lease line:	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
		DE LOS SANTOS, M	A-64	564 ft.	40

21. Lease Perpendiculars: 632 ft from the WEST line and 564 ft from the SOUTH line.

22. Survey Perpendiculars: 1728 ft from the WEST line and 2118 ft from the NORTH line.

23. Is this a pooled unit?	24. Unitization Docket No:	25. Are you applying for Substandard Acreage Field?
[ ] Yes [X] No		[ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	40032924	HEARD RANCH (4800)	Oil or Gas Well	4800	100.00	2
02	00004001	WILDCAT	Oil or Gas Well	5500	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks

[FILED Nov 2, 2012 12:55 PM]: The J.W. Hughes FLP #1R will be a replacement well for the J.W. Hughes FLP #1 (02H3412). The casing collapsed on the Hughes #1. [RRC STAFF Nov 5, 2012 7:43 PM]: There have been problems identified with this permit [see problem letter attachment]. Notification sent. [RRC STAFF Nov 7, 2012 12:17 PM]: Problems identified with this permit are resolved. [RRC STAFF Nov 7, 2012 1:18 PM]: There have been problems identified with this permit [see problem letter attachment]. Notification sent. [RRC STAFF Nov 7, 2012 3:55 PM]: Per Carol Boening, "We leased the entire 5200 acres many years ago but only held 40 acres around each well. The Hughes 1R is on the 40 acres held by the Hughes #1." [RRC STAFF Nov 7, 2012 3:55 PM]: Emailed the following: Does that mean that the TOTAL acreage for this lease is 5200 acres? It sounds like the 40 acres around each well is the drilling unit. [RRC STAFF Nov 8, 2012 10:12 AM]: Per Carol Boening, "No. In 1996, we leased 5200 acres. As with most leases in Texas, after the primary term of three years, we had to release all of the acreage with the exception of a certain number of acres that would be earned and held by each well drilled. We retained a 40 acre leasehold around the Hughes #1. It does coincide with the acreage contained in the original 40 acres outlined as the drilling unit for the Hughes #1. We now have absolutely no leasehold, mineral or development rights to the released Hughes acreage." [RRC STAFF Nov 8, 2012 10:43 AM]: Emailed the following: "You state that you now have absolutely no leasehold, mineral or development rights to the released Hughes acreage. Does this include the acreage that was assigned to Well #2? If you lost the development rights previously assigned to Well #2, then we can place a code 28 nonconcurrent production restriction on this permit for #2. So please verify if you lost the development rights previously assigned to #2." [RRC STAFF Nov 8, 2012 1:31 PM]: Per Terry Boening, "I am sorry for not including an explanation that we still hold the Hughes #2 and its assigned acreage. I thought that your questions were simply about the permit for the J.W. Hughes FLP #1R and the acreage on which it is located. I apologize for my lack of understanding the vein of your questioning relating to this permit. The J.W. Hughes FLP #1 produced all for many years. The casing failed last month and this is simply a replacement well. The #1 will be plugged within the next few weeks. The mineral owners are excited and we have a rig waiting on approval of the permit. In the past 30 years, I have permitted many wells on 40 acre leases without any problem and admittedly am puzzled by the apparent confusion." [RRC STAFF Nov 8, 2012 1:31 PM]: Emailed the following: You have two options to resolve the problem with this permit:

1) Verify if this is an 80 acre non-contiguous lease, with Wells 1 and 1R on 40 acres and Well 2 on 40 acres. If this is the case, then a code 28 restriction can be placed on the permit that all acreage assigned to this well for production must be contiguous.

2) If Wells 1 and 1R on 40 acres is a separate lease from Well 2 on 40 acres, then the lease name for the permit for Well #1R will need to be different, for example, J.W. Hughes FLP 'A'. You cannot have two separate leases with the same lease name. [RRC STAFF Nov 8, 2012 3:05 PM]: Per Terry, "Your scenario #2 below is correct. I have permission from the landowner to name the new well "Hughes #1R"). That will distinguish it from the other wells that contain "J.W. Hughes FLP". How do we change the name on the W-1 & submit a new plat without paying another fee?". [RRC STAFF Nov 8, 2012 3:05 PM]: Emailed the following: I can change the lease name on the permit. Send a revised plat changing the lease name (ie Hughes). Just reply to this email and attach the revised plat in tif format. [RRC STAFF Nov 8, 2012 10:01 AM]: Per Carol, "Attached is the revised plat for the Hughes #1R well". [RRC STAFF Nov 9, 2012 10:07 AM]: Problems identified with this permit are resolved.

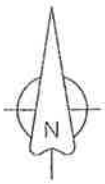
RRC Use Only Data Validation Time Stamp: Nov 9, 2012 10:08 AM('As Approved' Version)

Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

Name of filer	Date submitted
Carol Boening Mrs., Office Manager	Nov 02, 2012

Phone	E-mail Address (OPTIONAL)
(361)7413600	caab@sbcglobal.net



SCALE: 1" = 1,000'

Surveyors Note:

TIES TO LEASE LINES

632ft.± F. W. L.
564ft.± F. S. L.

TIES TO SURVEY LINES

1,728ft.± F. W. L.
2,118ft.± F. N. L.

D. TOOL SURVEY
A-1237

C & E OPERATING, INC.
J. W. HUGHES FLP No. 1 WELL

2118' ±

40 AC. DRILLING UNIT
LEASE

1728' ±

J. ROACHE SURVEY
A-60

632' ±

564' ±

AZ30°34'05"
100'

HUGHES No. 1R WELL
X = 2,478,606.9'
Y = 173,260.5'
Z = 129.1'
LAT: N 28°18'05.28"
LONG: W 97°30'45.98"
NAD 27 (T.S.C. ZONE)

M. DE LOS SANTOS SURVEY
A-64

PLAT SHOWING LOCATION OF
C & E OPERATING, INC.
HUGHES No. 1R WELL
IN THE M. De LOS SANTOS SURVEY, ABSTRACT No. 64
BEE, COUNTY , TEXAS

0 1000 2000 3000

I, W. E. Wilson, Registered Professional Land Surveyor No. 4652, hereby certify that the above plat correctly shows the location of C & E OPERATING, INC., HUGHES No. 1R WELL, as staked under my supervision on the ground November 01, 2012.. (Revised November 06, 2012)

Witness my hand this July 09, 2011

(W.E. Wilson)
Registered Professional Land Surveyor No. 4652
G&G SURVEY AND CONSULTING, INC.
9627 Needville Fairchilds Road.
Needville, Texas 77461
979-793-3428
gps01@comcast.net

Note: Distance from nearest town, bears N. 71 deg. W., 10.7 miles from the U.S. Post office in Skidmore, Texas more or less.

STATE OF TEXAS
REGISTERED
W.E. WILSON
4652
PROFESSIONAL
LAND SURVEYOR

" SURVEYOR'S NOTES "
This plat does not represent a boundary survey. Acreages shown are deed called or calculated from deeds furnished by others.

ALL THE HORIZONTAL CONTROL IS REFERRED TO THE TEXAS PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, TEXAS SOUTH CENTRAL ZONE, NAD 27. ALL BEARINGS, DISTANCES AND ACREAGE ARE GRID.

MAP ID #22

API# 42-025-01563
DRY HOLE

37598

(22)

Application to Drill, Deepen or Plug Back.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK Drill
SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE,
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, fo this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. . Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 467 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease -- feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date February 19, 1963

Name of company or operator

Name Flournoy Production Co. & Dan A. Hughes

Address P. O. Box 1578

City Alice, Texas

Description of farm or lease:

Name of Lease Josephine Chestnutt

Number of Acres 800 Well No.)

Number of wells on lease None

Elevation 129 GR (Ft. above sea level) Section No. -- Block No. --

Survey Miguel De Los Santos

Zone or Reservoir Frio Sands

To be Located in Wildcat Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) 2000 ft. from West Line & 467 Ft. from South Line, Bee County

18 Miles East South East direction from Beeville, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling Receipt of Permit

Depth to which you propose to drill 5500 feet.

Date work will start deepening ----

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name No Other wells on Lease

Address

(Farmout from Robert Mosbacher)

Please Wire Permit.

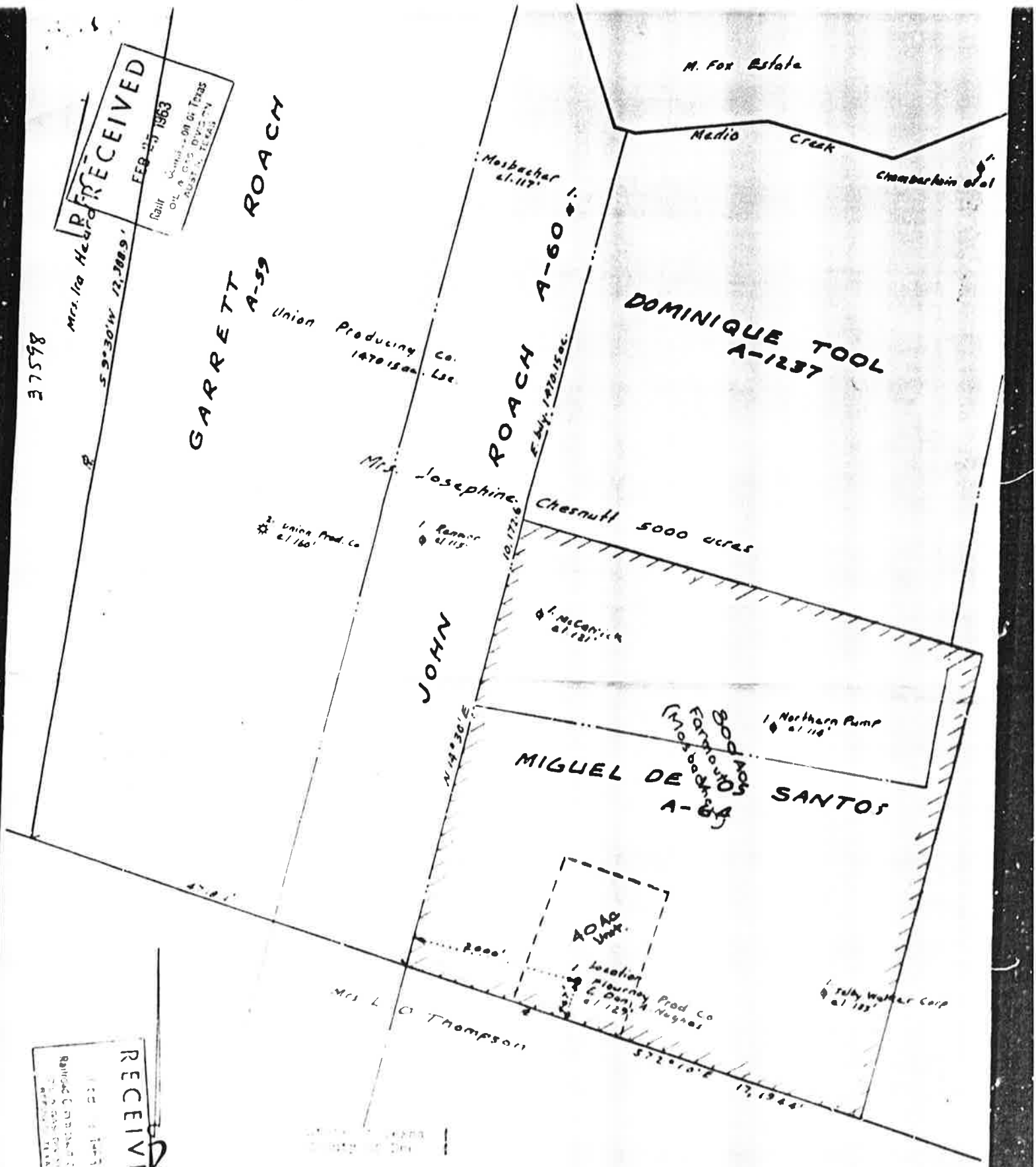
NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

RECEIVED
FEB 21 1963
Railroad Commission of Texas
OIL & GAS DIVISION
CORPUS CHRISTI, TEXAS

OK

025-01563



RECEIVED
FEB 25 1963
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

RECEIVED

Scale 1" = 1000 feet

I certify that the above plat correctly shows the Flournoy Production Company and Dan A. Hughes location No. 1 Mrs. Josephine Chesnutt in the Miguel De Los Santos survey, Abstract No. [illegible] in [illegible] County, Texas, as surveyed by me on the ground February [illegible], [illegible].

Herbert T. Whalen
Registered Public Surveyor

37598

Please Refer to File No.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company Flournoy Production Co. & Dan A. Hughes Address P. O. Box 1578, Alice, Texas

Sec. No. -- Block No. Abst. #64 Survey Miguel De Los Santos County Bee

Well No. 1 Name of Lease Josephine Chestnutt No. of Acres 800 Elev. 129 GR

Name of Field in which well is located Wildcat

Located 18 miles ESE Direction from Beeville, Texas (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Flournoy Production Co. & Dan A. Hughes

Drilling Commenced Feb. 27, 19 63 Drilling Completed March 4, 19 63

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 5365

Date you wish to Plug Soon As Possible, 19 63

Name of Party Plugging well Halliburton OWC Address Beeville, Texas

Correspondence regarding this well should be sent to: Name Flournoy Production Company

Address P. O. Box 1578, Alice, Texas

Initial Production of Gas: Volume (MCF) None 24 hrs. Pressure -- lbs. per square inch

Initial Production of Oil: Barrels None

Give notice before Plugging to all available Lease Owners, as required by Rule (10). Verbal Notice Given to Humble & Mosebacker March 4, 1963.

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks:

RECEIVED
MAR - 7 1963
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

DR

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Sd. & Clay	0	350	
Wtr. Sd.	350	410	
Sds. W/Sh. Strks.	410	1550	
Brkn Sds W/Sh.	1550	2700	
Sh. W/Sd. Strks.	2700	3000	
Sand	3000	3770	
Shale	3770	4320	
Sand	4320	4348	
Sahle W/Sd. Strks.	4348	5170	
Brkn. Sand	5170	5365	

RECEIVED
MAR 8 - 1963
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

Method of shutting off water Cement Plugs. Is water completely shut off? Yes.

Amount of water with oil None. per cent. mo

I, E. M. Peterson being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

E. M. Peterson
Representative of Company.

Subscribed and sworn to before me this 7th day of March, 19 63.

Mary Dean Canon
Notary Public
Jim Wells County, Texas.

37598

Please Refer to
File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Flournoy Production Company Address P. O. Box 1578, Alice, Texas

Sec. No. -- Block No. Abst. 64 Survey Miguel De Los Santos County Bee

Well No. 1 Name of Lease Josephine Chestnutt No. of Acres 800

Name of Field in which well is located Wildcat Date well was plugged March 5, 1963

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of Flournoy Production Co. & Dan A. Hughes

Character of Well at the time of completion: Oil Dry (Initial Production) bbls; Gas -- (Initial Production) Cu. Ft.; Dry Yes

Amount well producing when plugged: Oil None bbls; Gas None Cu. Ft.; Water -- bbls.

Has this well ever produced oil or gas? No

Total Depth 5365 feet. Top of each producing sand Electric Log Attached feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes.

How was mud applied? Pumped thru Drill Pipe

Were plugs used? Yes. If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? No

100 Ft. Cmt. Plug 1550 to 1650 100 Ft. Cmt. Plug 300 to 400 & 5 sack plug in surface.

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
8 5/8	353				353		Larkin Guide Shoe

Show depth found and thickness of all water, oil and gas formations Electric Log Filed With Railroad Commission.

Have all abandonec wells on this lease been plugged according to Commissions rules? Yes.

Manner of confining all oil, gas or water to strata: Cement Plugs & Mud Laden Fluid

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:

Humble Oil & Refining Co., Wilson Tower, Corpus Christi, Texas

Robert Mosbacker, 602 Bank of Commerce Bldg., Houston 2, Texas

RECEIVED
MAR - 7 1963
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

Was notice given before plugging to all available adjacent lease owners as required by Rule [illegible]

I, E. M. Peterson, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name E. M. Peterson Title Agent

Subscribed and sworn to before me this 7th day of March, 1963

Mary Dean Cannon
Notary Public Jim Wells County, Texas

Correspondence regarding this well should be addressed to:

Name Flournoy Production Company Address P. O. Box 1578, Alice, Texas

MAP ID #23

API# 42-025-33021
DRY HOLE

Plugging Record

ORIGINAL

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. 42-025-33021 (if available)

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 184653

2. FIELD NAME (as per RRC Records): WILDCAT

3. Lease Name: HUGHES FPL

5. Well Number: 1

6. OPERATOR: UNITED TEXAS PETROLEUM, INC.

6a. Original Form W-1 Filed in Name of:

10. County: BEE

7. ADDRESS: 5700 W. PLANO PARKWAY, STE. 2600 PLANO, TEXAS 75093

6b. Any Subsequent W-1's Filed in Name of

11. Date Drilling Permit Issued: 5-30-00

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 1085 Feet From SW Line and 1090 Feet From SE Line of the Hughes FPL Lease

12. Permit Number: 495630

9a. SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS

9b. Distance and Direction From Nearest Town in this County: 10.2 miles ENE of SKIDMORE

13. Date Drilling Commenced: 6-13-00

16. Type Well (Oil, Gas, Dry): GAS

Total Depth: 5075'

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 6-17-00

18. If Gas, Amt. of Cond. on Hand at time of Plugging: NONE

15. Date Well Plugged: 5/13/03

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	5-12	5-13	5-13	5-13				
20. Size of Hole or Pipe in which Plug Placed (Inches)	4½	4½	4½	4½				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4800	1625	1037	15				
*22. Sacks of Cement Used (each plug)	20	20	30	3				
*23 Slurry Volume Pumped (cu. ft.)	21.20	21.20	31.80	3.18				
*24. Calculated Top of Plug (ft.)	4550	1375	662	3				
25. Measured Top of Plug (if tagged) (ft.)		1396						
*26. Slurry Wt. #/Gal.	16.4	16.4	16.4	16.4				
*27. Type Cement	H	H	H	H				

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
85/8		560	560	12 ¼
4½		5054	5054	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

RRC
JUN 02 2003

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4874	TO	4882	FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO

RECEIVED
CENTRAL RECORDS
AUG 28 2003
AUSTIN, TEXAS

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Robert L Jones
Signature of Cementer or Authorized Representative

NEWMAN OPERATING COMPANY
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY | President TITLE | 5/21/03 DATE | Phone 972 818-8815 A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? CIRCULATED IN PLACE

33. Mud Weight 9.8 LBS/GAL

34. Total Depth 5075

Depth of Deepest Fresh Water 1500

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	850

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [ ] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: NEWMAN OPERATING COMPANY P.O. BOX 448 FREER, TEXAS 78357

Date RRC District Office notified of plugging 5/09/03

38. Name(s) and Address(s) of Surface Owners of Well Site

39. Was Notice Given Before Plugging to the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS

Type or print only

483+047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev 4/1/83

API No. 42-025-33021

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7 RRC District No. 02

8 RRC Gas ID No 184623

1. FIELD NAME (as per RRC Records or Wildcat): WILDCAT

2 LEASE NAME: HUGHES FPL

9 Well No: 1

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): UNITED TEXAS PETROLEUM INC.

RRC Operator No: 877688

10 County of well site: BEE

4 ADDRESS: 17774 PRESTON RD. - DALLAS TX 75252

11 Purpose of filing
- Initial Potential ☐
- Retest ☐
- Reclass ☐
- Well record only ☒ (Explain in remarks)

5 Location (Section, Block, and Survey): M. DE LOS SANTOS

5b Distance and direction to nearest town in this county: 10.2 MILES ENE OF SKIDMORE

6 If operator has changed within last 60 days, name former operator

12 If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13 Pipe Line Connection: NONE

14 Completion or recompletion date: 1-5-01

15 Did condensate on hand at time of workover or recompletion? ☐ Yes ☐ No

16 Type of Electric or other Log Run: DIFL/CDCN/GR

RECEIVED R.R.C. OF TEXAS AUG 17 2001 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Section I — GAS MEASUREMENT DATA

Date of Test

Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ | Positive Choke ☐ | Orifice Vent Meter ☐ | Pitot Tube ☐ | Critical-flow Prover ☐

Gas produced during test: MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1										
2										
3										
4										

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix} =	Avg. Shut-In Temp ^oF	Bottom Hole Temp. ^oF @ (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\quad}$ = $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff}^{8/3})}{\sqrt{T}}$ = = $\frac{\sqrt{GL}}{C}$ = =

MAY 20 2002 AUSTIN, TEXAS

Run No	Time of Run Min	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp ^oF	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In									
1									
2									
3									
4									

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	P_s^2 (thousands)
Shut—In							
1							
2							
3							
4							

Angle of Slope

θ .....

n .....

Absolute Open Flow ..... MCF/DAY

MAY 2002 LOG

WELL TESTER'S CERTIFICATION I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

Prepared by Earl Burns, Inc. 915-673-4548

Signature, Well Tester | Name of Company | RRC Representative

OPERATOR'S CERTIFICATION. I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Earl Burns — AGENT — 8-14-01 — Tel. 915-673-4548

Signature: Operator's representative | Title | Date | A/C Number

VALID PERMIT

AUG 27 2000

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [XX] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 5-30-00 — PERMIT NO. 495630
Rule 37 Exception — CASE NO
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
EXP INC.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 500

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 6-13-00 Completed 6-17-00

23. Distance to nearest well, Same Lease & Reservoir: —

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1085 Feet From SW Line and 1090 Feet from SE Line of the HUGHES EPL Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 131.2 GR

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay	28. Total Depth	29. P. B Depth	30. Surface Casing Determined by:
4870	5075	5050	Field Rules [ ] Recommendation of T.D.W.R. [X] Dt. of Letter 5-30-00 Railroad Commission (Special) [ ] Dt. of Letter

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools XX Cable Tools

34. Name of Drilling Contractor: CORPUS CHRISTI DRLG.

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8-5/8	24	560		290-A-	12-1/4	SFC	523
4-1/2	10.5	5054		865 -A-	7-7/8	SFC	1615

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8	4820	4820

39 Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
From 4874	To 4882
From	To
From	To

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4874-82	NATURAL

41 FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
HEARD RANCH	4870		

REMARKS THIS WELL IS NOT YET PRODUCING.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): WILDCAT	2. LEASE NAME: Hughes FLP
3. OPERATOR: United Texas Petroleum Company	
4. ADDRESS: 17774 PRESTON RD. - DALLAS TX 75252	
5. LOCATION (Section, Block, and Survey): M. DE LOS SANTOS	
6. RRC District: 2	
7. RRC Lease Number. (Oil completions only)	
8. Well Number: 1	
9. RRC Identification Number (Gas completions only)	
10. County: Bee	

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
460	4.60	1/4	0.436	2.01	2.01
576	1.16	1/4	0.436	.51	2.52
1565	9.89	1/2	0.873	8.63	11.15
2556	9.91	1/2	0.873	8.65	19.80
3540	9.84	3/4	1.309	12.88	32.68
4440	9.00	1	1.745	15.71	48.39
5075	6.35	1 1/4	2.181	13.85	62.24

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SAN ANTONIO, TEXAS

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 5075 feet = 62.24 feet.

*19. Inclination measurements were made in -- ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 1085 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Signature of Authorized Representative

J. Chris McClanahan, Managing Partner
Name of Person and Title (type or print)

Corpus Christi Drilling & Workover, L.L.C.
Name of Company

Telephone: 361 (Area Code) 852-6195

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Signature of Authorized Representative

Jerry Maes Agent
Name of Person and Title (type or print)

United Texas Pet. Co.
Operator

Telephone: 972 (Area Code) 7125711

Railroad Commission Use Only:

Approved By: [signature] Title: [illegible] Date: 8/17/01

* Designates items certified by company that conducted the inclination surveys.

Cementer: Fill in shaded areas.
Operator: Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
United Texas Petroleum Inc.	877688	02	Bee

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
WILDCAT	42-025-33021	495630

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
HUGHES-FPL			#1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		06/13/00					
13. •Drilled hole size		12 1/4			5-30-00		
•Est. % wash or hole enlargement			T.N.R.C.C. LETTER DATED				
14. Size of casing (in. O.D.)		8 5/8	Depth 1500'		850'		
15. Top of liner (ft.)			13(A) Exception Dated		6-7-00		
16. Setting depth (ft.)		560	Surface Casing 550			ft.	
17. Number of centralizers used		3	D.V. @			ft.	
18. Hrs. waiting on cement before drill-out		8					
1st Slurry	19. API cement used: No. of sacks ▶	170					
	Class ▶	A					
	Additives ▶	SAlt					
2nd Slurry	No. of sacks ▶	120					
	Class ▶	A					
	Additives ▶	CaCL2					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	379					
	Height (ft.) ▶	918					
2nd	Volume (cu. ft.) ▶	144					
	Height (ft.) ▶	349					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	523					
	Height (ft.) ▶	1267					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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AUG 17 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Tony Cano, Cementer — Name and title of cementer's representative

BJ SERVICES COMPANY — Cementing Company

Tony Cano — Signature

411 Hartman Road. Victoria. Texas 77905 — Address, City, State, Zip Code

361-575-6446 — Tel.: Area Code Number

06/13/00 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

JERRY MOEN — Typed or printed name of operator's representative

Agent — Title

Jerry Moen — Signature

17774 PRESTON RD. DALLAS TX 75252 — Address, City, State, Zip Code

972-490-1282 — Tel.: Area Code Number

8-14-01 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No	4. County of Well Site
UNITED TEXAS PETROLEUM INC.	877688	02	BEE

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No	7. Drilling Permit No.
WILDCAT	42-025-33021	495630

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No	11 Well No.
HUGHES-FPL			#1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				06/17/00			
13. •Drilled hole size				7 7/8			
•Est. % wash or hole enlargement							
14. Size of casing (in. O D)				4 1/2			
15 Top of liner (ft)							
16 Setting depth (ft)				5054			
17 Number of centralizers used				18			
18. Hrs. waiting on cement before drill-out							
1st Slurry	19. API cement used: No of sacks ▶			560			
	Class ▶			A			
	Additives ▶			Poz,Gel,Salt,R3,Cello Flakes			
2nd Slurry	No. of sacks ▶			305			
	Class ▶			A			
	Additives ▶			KCL,FL25			
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶			1249			
	Height (ft) ▶			5483			
2nd	Volume (cu. ft.) ▶			366			
	Height (ft.) ▶			1607			
3rd	Volume (cu. ft) ▶						
	Height (ft.) ▶						
Total	Volume (cu ft) ▶			1615			
	Height (ft.) ▶			7090			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

22 Remarks

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Dennis R.Duderstadt,Service Superv. — Name and title of cementer's representative

BJ SERVICES CO. — Cementing Company

Signature

411 Hartman Road, Victoria, Texas 77905 — Address, City, State, Zip Code

361-575-6446 — Tel.: Area Code Number

06/17/00 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

JERRY MOEN — Typed or printed name of operator's representative

Agent — Title

Jerry Moen — Signature

17774 PRESTON RD. DALLAS TX 75252 — Address, City, State, Zip Code

972-490-1282 — Tel.: Area Code Number

8-14-01 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

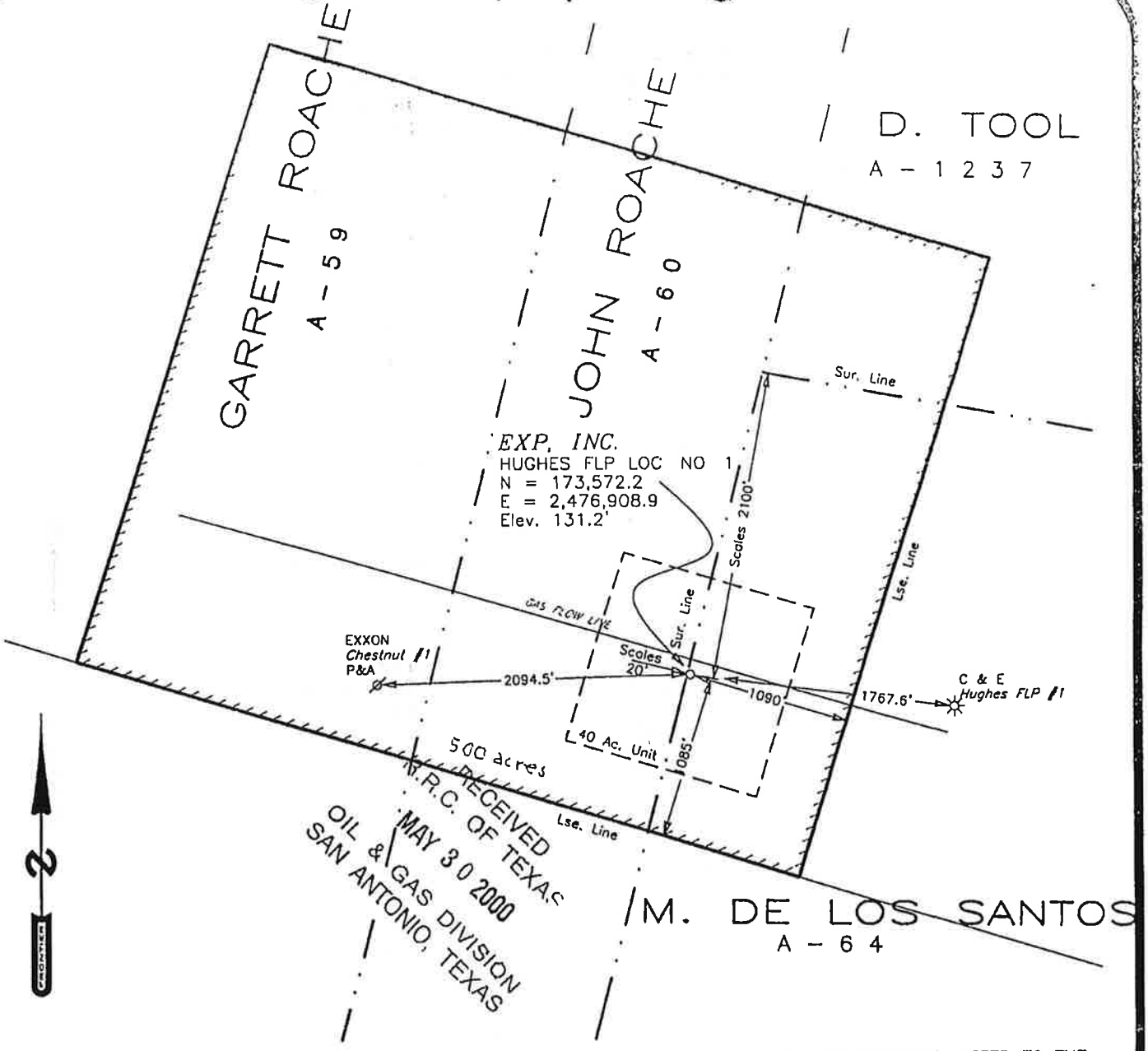
D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.



ALL COORDINATES REFER TO THE LAMBERT COORDINATE SYSTEM NAD27, TEXAS SOUTH CENTRAL ZONE

I HEREBY CERTIFY THAT THIS PLAT CORRECTLY SHOWS THE SUBJECT LOCATION AS STAKED ON THE GROUND.

JARREL L. MOORE
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 4854

STATE OF TEXAS
REGISTERED
JARREL L. MOORE
4854
PROFESSIONAL
LAND SURVEYOR

FRONTIER SURVEYING CO.
Land Surveying/Mapping/GPS/GIS
710 Buffalo St. Suite 502
Corpus Christi, TX 78401
(361) 881-8044 Fax (361) 881-8340

PLAT OF

A WELL LOCATION FOR:

E X P, INC.
HUGHES FLP LOCATION #1

SITUATED IN THE M. DE LOS SANTOS SURVEY, A-64, APPROXIMATELY 10.2 MILES ENE OF SKIDMORE IN BEE COUNTY, TEXAS

Completion Date. 05/12/00		File Name	000503.DWG
Scale. 1"=1000'		Surveyed by	JLM,ZS
Drawn by: JLM		Checked by.	RLH

PLOT DATE: 05-12-00 3:34 PM

Job # 000503

Form W-1
Rev. 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

PAGE 1 OF 2

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-33021
▶ Permit No. 495630DC
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report)	3. RRC Operator No.	4. RRC District No.	5. County of Well Site
EXP INC.	256996	02	BEE

2. Address (including city and zip code)
PO BOX 866607
PLANO TX 75086
946091

6. Lease Name (32 spaces maximum): HUGHES FPL
7. RRC Lease/ID No:
8. Well No.: 1
9. Total Depth: 5500

10. Location
• Section _____ Block _____ Survey M. DE LOS SANTOS Abstract No. A- 64
• This well is to be located 10.2 miles in a ENE direction from SKIDMORE, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 1085 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 500 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
WILDCAT 4001	5500	467/1200	40	40	NO	NONE	O/G	1	1
HEARD RANCH (4800) 40032924	4800	467/1200	40	40	NO	NONE	O/G	1	1
HEARD RANCH (4300) 40032792	4300	467/1200	40	40	NO	NONE	O/G	1	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1085 FSWL & 1090 FSEL
• Survey/Section 20 FNWL & 2100 FNEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [XX]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [ ]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [XX]
If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

RECEIVED
RRC OF TEXAS
MAY 30 2000
OIL & GAS DIVISION
AUSTIN, TEXAS

I certify that information stated in this application is true and complete, to the best of my knowledge.

Zoe Carlson — ZOE CARLSON, AGENT
Signature — Name and title of operator's representative

5-26-00 — 214-596-8323
Date: mo. day yr. — Tel.: Area Code Number

• RRC Use Only •
REC#56071 210300 495630

025-33021

Prepared by
Earl Burns, Inc.
915-673-4548

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office

Read instructions on Back

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

PAGE 2 OF 2

Purpose of filing (mark appropriate boxes).
[XX] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-
Permit No.
Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): EXP INC.
3 RRC Operator No.: 256996
4. RRC District No.: 02
5. County of Well Site: BEE

2. Address (including city and zip code): PO BOX 866607 PLANO TX 75086
6. Lease Name (32 spaces maximum): HUGHES FPL
7. RRC Lease/ID No:
8. Well No.: 1
9. Total Depth: 5500

10. Location
• Section ____ Block ____ Survey M. DE LOS SANTOS Abstract No. A- 64
• This well is to be located 10.2 miles in a ENE direction from SKIDMORE, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 1085 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 500 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
HEARD RANCH (3900) 400325941	3900	467/1200	40	40	NO	NONE	G	0	1
HEARD RANCH (3500) 400323960	3500	467/1200	40	40	NO	NONE	G	0	1
HEARD RANCH (2900) 400322604	2900	467/1200	40	40	NO	NONE	G	0	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1085 FSWL & 1090 FSEL
• Survey/Section 20 FNWL & 2100 FNEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

Prepared by Earl Burns, Inc. 915-673-4548

23. Is this a pooled unit? Yes [ ] (Attach Form P-12 and certified plat.) No [XX]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] (Attach Form W-1A) No [ ]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [XX]
If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

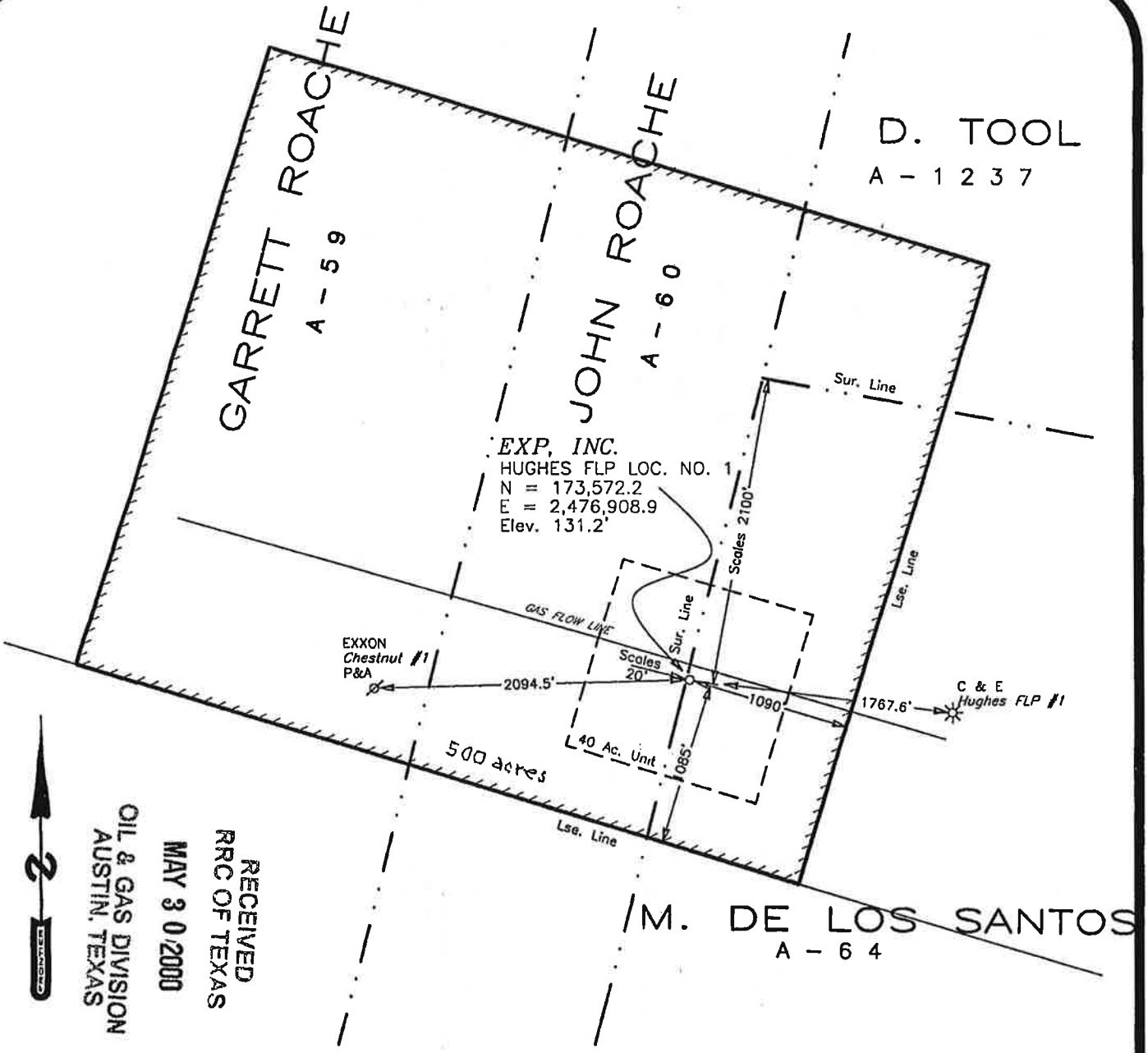
Remarks

RECEIVED
RRC OF TEXAS
MAY 30 2000
OIL & GAS DIVISION
AUSTIN, TEXAS

I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: Zoe Carlson
Name and title of operator's representative: ZOE CARLSON, AGENT
Date: 5-26-00 (mo. day yr.)
Tel: 214-596-8323 (Area Code Number)

• RRC Use Only •



ALL COORDINATES REFER TO THE LAMBERT COORDINATE SYSTEM NAD27, TEXAS SOUTH CENTRAL ZONE

I HEREBY CERTIFY THAT THIS PLAT CORRECTLY SHOWS THE SUBJECT LOCATION AS STAKED ON THE GROUND.

JARREL L. MOORE
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 4854

STATE OF TEXAS
REGISTERED
JARREL L. MOORE
4854
PROFESSIONAL
LAND SURVEYOR

FRONTIER SURVEYING CO.
Land Surveying/Mapping/GPS/GIS
710 Buffalo St. Suite 502
Corpus Christi, TX 78401
(361) 881-8044 Fax (361) 881-8340

PLAT OF

A WELL LOCATION FOR:

E X P, INC.
HUGHES FLP LOCATION #1

SITUATED IN THE M. DE LOS SANTOS SURVEY, A-64, APPROXIMATELY 10.2 MILES ENE OF SKIDMORE IN BEE COUNTY, TEXAS

Completion Date	05/12/00	File Name:	000503.DWG
Scale:	1"=1000'	Surveyed by:	JLM,ZS
Drawn by:	JLM	Checked by:	RLH

PLOT DATE: 05-12-00 3:34 PM

JOB #: 000503

MAP ID #24

API# 42-025-30257
DRY HOLE

(24)

BEE DIST. 2
API W API NO. 42 025 30267

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

FORM W-1 (3-1-70)

7

SPS APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

7. RRC District: 2

8. County: Bee

1. Operator: Canus Petroleum, Inc.

4. Lease Name: S. D. Chestnutt, et al

9. Well Number: 1

2. Address (Including City and Zip Code): 1611 The Six Hundred Building, Corpus Christi, Texas 78401

5. Location (Sec., Blk., Survey): Garrett Roache Survey A-59

10. Number of Acres in Lease: 100

6. This well is to be located 17 miles East

Direction from Beeville

Nearest Post Office or Town.

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 467

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] NO [ ]

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat ABOVE 5000'	Above 5000'		Rule 37	SW Rule 38	40	No	1st Well on Lease	Yes	Oil and/or Gas	0	0

R.R.C. OF TEXAS JAN 17 1974

RECEIVED R.R.C. OF TEXAS JAN 16 1974 OG SAN ANTONIO, TEXAS

4025 12302 67 40 ac

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS: 10,500' from north line and 1740' from the east line

900' SE of Medio Creek Fld.

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

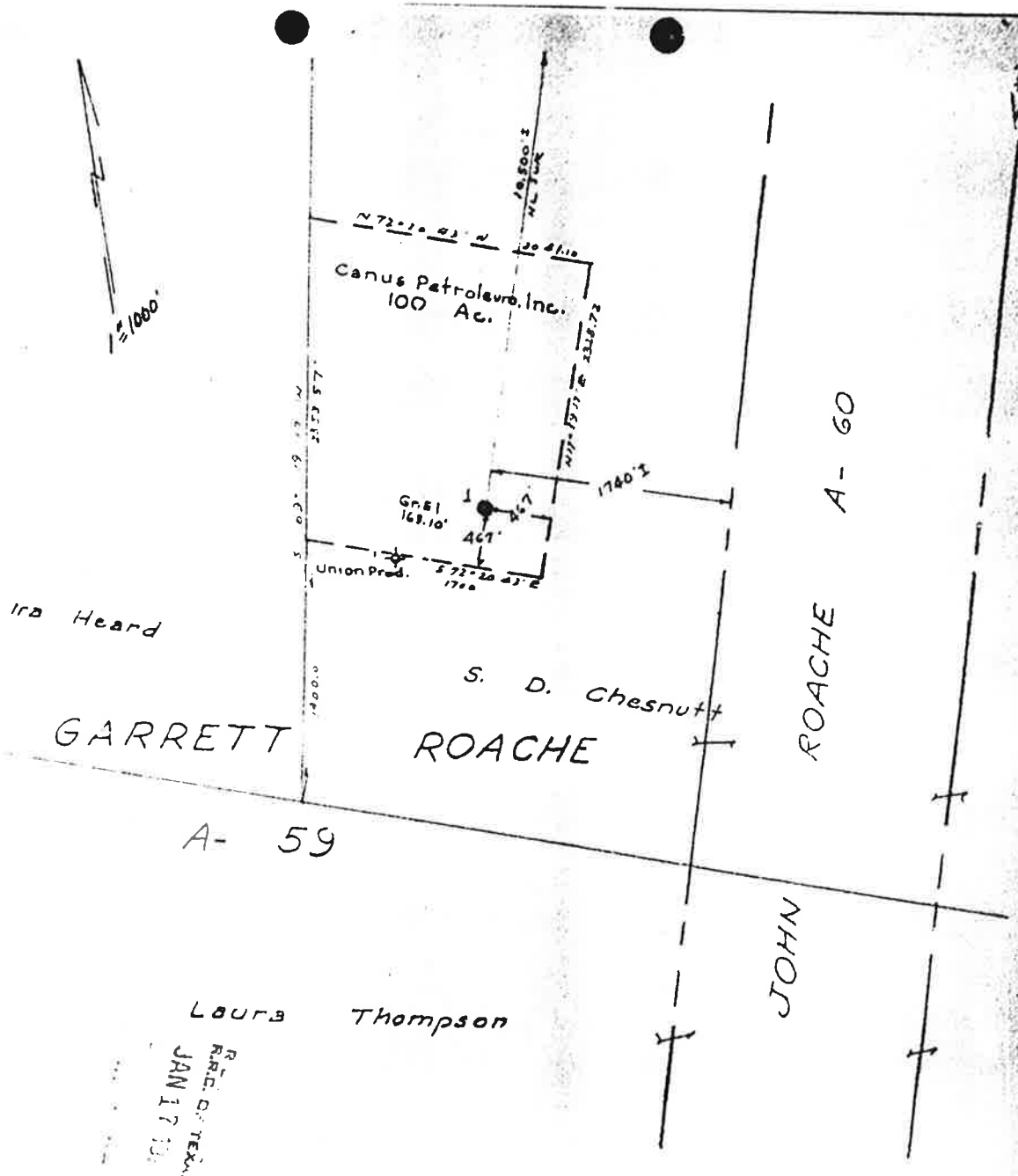
Jerry Maki Jerry Maki
Signature

Petroleum Engineer
Title

January 10, 1974
Date

Telephone: Area Code 512, 884-8895

– OVER –



PLAT SHOWING LOCATION
MADE FOR

CANUS PETROLEUM, INC.
S. D. CHESNUTT ET AL - WELL NO. 1
IN
GARRETT ROACHE SURVEY A-59
BEE COUNTY, TEXAS

SCALE 1" = 1000 FEET

RECEIVED
R.R.C. OF TEXAS
JAN 16 1974
OIL
SAN ANTONIO, TEXAS

I, Randolph S. King, Registered Public Surveyor of Texas do hereby certify that this is a true and correct plat of an actual survey made by me on the ground, to the best of my knowledge and ability, this the 4th day of January, 1974 A. D.

Randolph S. King
Registered Public Surveyor
Texas Registration No. 493
Phone 364-2622

NE 821

0 0 0 0 2 6 0 0 0 2 2

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (if available) -

1. RRC District: 2

4. RRC Lease or Id. Number:

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records): Wildcat	3. Lease Name: S. D. Chestnutt	5. Well Number: #1
6. OPERATOR: Canus Petroleum Co.	6a. Original Form W-1 Filed in Name of: Canus Petroleum, Inc.	10. County: Bee
7. ADDRESS: 2000 The 600 Building Corpus Christi, Texas 78473	6b. Any Subsequent W-1's Filed in Name of: -	11. Date Drilling Permit Issued: 1/10/74
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 10,500 Feet From North Line and 1,740 Feet From East Line of the Chestnutt Lease		12. Permit Number: -
9a. SECTION, BLOCK, AND SURVEY: Garrett Roache Survey A-59	9b. Distance and Direction From Nearest Town in this County: 17 miles East of Beeville	13. Date Drilling Commenced: 6/13/74
16. Type Well (Oil, Gas, Dry): Dry — Total Depth: 5010	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s — GAS ID or OIL LEASE # / Oil-O Gas-G / WELL #	14. Date Drilling Completed: 6/27/74
18. If Gas, Amt. of Cond. on Hand at time of Plugging		15. Date Well Plugged: 9/12/80

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	9-12-80							
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2760							
*22. Sacks of Cement Used (each plug)	70							
*23. Slurry Volume Pumped (cu. ft.)	8260							
*24. Calculated Top of Plug (ft.)	0'							
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	15.2							
*27. Type Cement	H							

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	20	522	522	12 1/4
2 7/8	6.5	4990	4990	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: [ ] Yes [xx] No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4812	TO	4814	FROM	TO
FROM	3782	TO	3791	FROM	TO
FROM	3581	TO	3584	FROM	TO
FROM	2804	TO	2808	FROM	TO
FROM		TO		FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

E. J. Tomas
Signature of Cementer or Authorized Representative

Perfection Cementing Co.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R.R.C. OF TEXAS
OCT 9 1980
O.G.
SAN ANTONIO, TX.

Joe E. Wirsching — REPRESENTATIVE OF COMPANY
Vice President - Operations — TITLE
10/7/80 — DATE
Phone 512 — A/C
884-8895 — NUMBER

Joe E. Wirsching
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

W-1 & plat on 72-74 W/C & Suspense Filming

025-30267

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — [X] Yes [ ] No

32. How was Mud Applied? Pump

33. Mud Weight 9.9 LBS/GAL

34. Total Depth 5010

Depth of Deepest Fresh Water 1300

Other Fresh Water Zones by T.D.W.R. — TOP / BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [XX] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
Perfection Cementing Co. 725 North Johnson Alice, Texas 78332

Date RRC District Office notified of plugging 9/10/80

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases
Ray Welder, Jr. 801 North Adams Beeville, Texas 78102

Exxon Company - Wilson Tower - Corpus Christi, Texas 78401

39. Was Notice Given Before Plugging to Each of the Above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs

[XX] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?
-

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

DRILLERS LOG

#1 CHESTNUT

Bee County, Texas

OPERATOR: Canus Petroleum, Inc.
Suite 1213, Citizens Bank Center
Dallas, Texas 75080

CONTRACTOR: Double Eagle Drilling Company
Suite 250,200 West Douglas
Wichita, Kansas 67202

COMMENCED: June 13, 1974

COMPLETED: June 27, 1974

CASING RECORD: 8-5/8" K-55 20# @ 522' w/155 sx, 4% gel + 3% salt,
150 sx - 2% CC
167 jts 2-7/8" tubing

FROM	TO	DESCRIPTION
0	121	Sand and clay
121	908	Shale and sand
908	960	Shale
960	3821	Sand and shale
3821	4755	Shale
4755	5010	Sand and shale
5010		Rotary total depth

STATE OF KANSAS)
) ss
COUNTY OF SEDGWICK)

I hereby certify that the above is a true and correct log to the best of my knowledge and belief.

Don Gardner

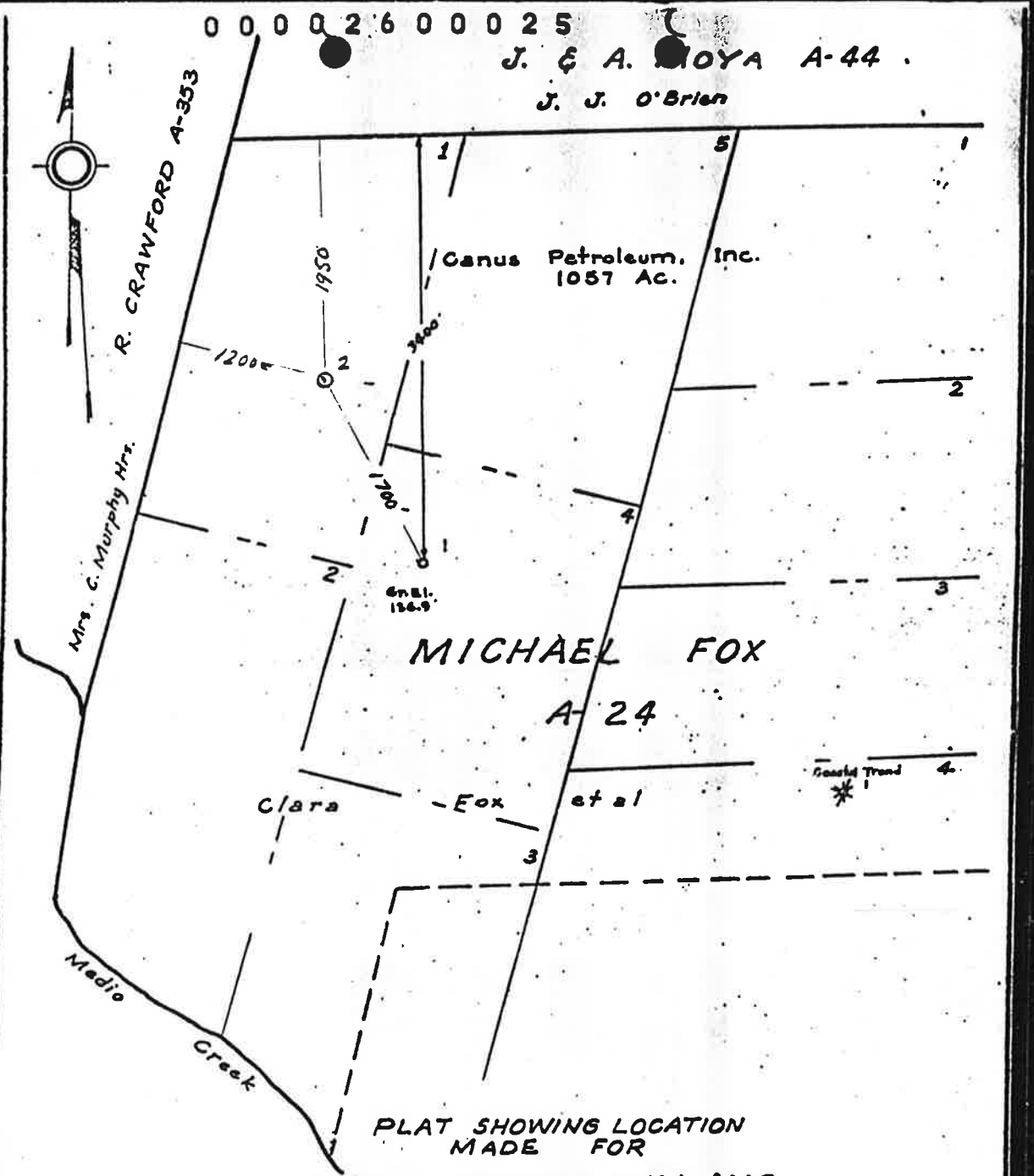
Subscribed and sworn to before me this 8th day of July, 1974.

My commission expires:
December 14, 1977

Notary Public

RECEIVED
R.R.C. OF TEXAS
OCT 9 1980
O.G.
SAN ANTONIO, TX.

0 0 0 0 2 6 0 0 0 2 5



PLAT SHOWING LOCATION
MADE FOR

CANUS PETROLEUM, INC.
CLARA FOX ET AL - WELL NO. 1
IN
MICHAEL FOX SURVEY A-24
BEE COUNTY, TEXAS

SCALE 1" = 1000 FEET.

I, Randolph S. King, Registered Public Surveyor of Texas do hereby certify that this is a true and correct plat of an actual survey made by me on the ground to the best of my knowledge and ability, this the 20th day of July, 1973 A.D.

Randolph S. King
Registered Public Surveyor
Texas Registration No. 493
Phone 364-2622
Sinton, Texas 78387

150/+6

MAP ID #25

API# 42-025-01542
OIL & GAS WELL
PLUGGED

52019

Please refer to File No. 20239

RAILROAD COMMISSION OF TEXAS

Form 1

OIL AND GAS DIVISION

APPLICATION TO DRILL OR DEEPEN

IS THIS AN APPLICATION TO DRILL OR DEEPEN Drill ?

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines.. Also show the nearest wells on all sides of of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries f the location [illegible] showing the acreage to be [illegible] and addresses of adjoining lease or property owners and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

RECEIVED
JAN 17 1952
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS [illegible] OR LOT OUT OF YOUR LEASE, DESIGNATE [illegible] THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line.....660.....feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease.....feet.

Date....January 16,..... 19.52...

Name of company or operator

Name...Union Producing Company.....

Address Box 711.....

City....Beeville, Texas.....

Description of farm or lease:

Name of Lease...Chestnutt.....

Number of Acres.1050.55.....Well No...1.....

Number of wells on lease.....None.....

Survey.G. Roache A-59

Elevation.....Feet
(ABOVE SEA LEVEL)

Section No.....Block No.....

Located in.....Medio Creek Field.....Field

(If Wildcat state above)

.....Bee.....County

.....9.....Miles....SW....direction from

.....Klanconia....nearest postoffice or town.

Rotary or Cable Tools.....Rotary.....

Date work will start drilling....1-25-52.....

Depth to which you propose to drill....6000..feet.

Date work will start deepening.....

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name.....

Address.....

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

1

FILE No. .....

DRAW SKETCH IN SPACE BELOW OR FILE CERTIFIED LEASE PLAT
(Be sure that all required locations, footages, distances, and scales are given.)

NORTH

At a point 1980 feet northeast of the southwest line and 660 feet southeast of the northwest line of Union Producing Company's Mrs. Josephine Chestnutt Lease No. 20239 in the Garrett Roach Survey, Abstract No. 59, Bee County, Texas.

WEST

EAST

SOUTH

RECEIVED
JAN 11 1952
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

Scale of Plat .....

I, W. M. Gill, being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

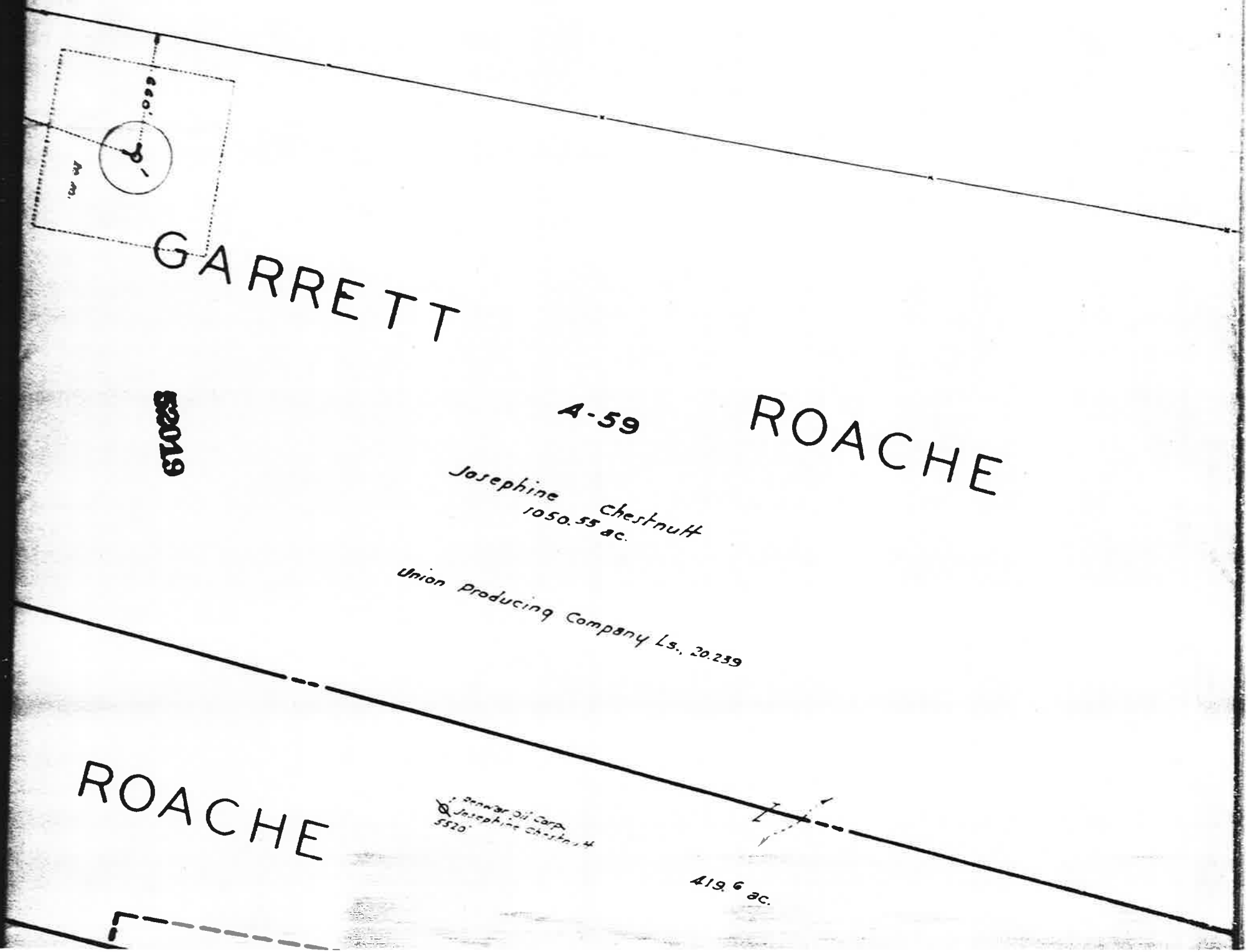
Name W. M. Gill Title District Engineer

Subscribed and sworn to before me this 14th day of January, 1952

Correspondence regarding this well should be addressed to: Notary Public Beeville, Bee County, Texas.

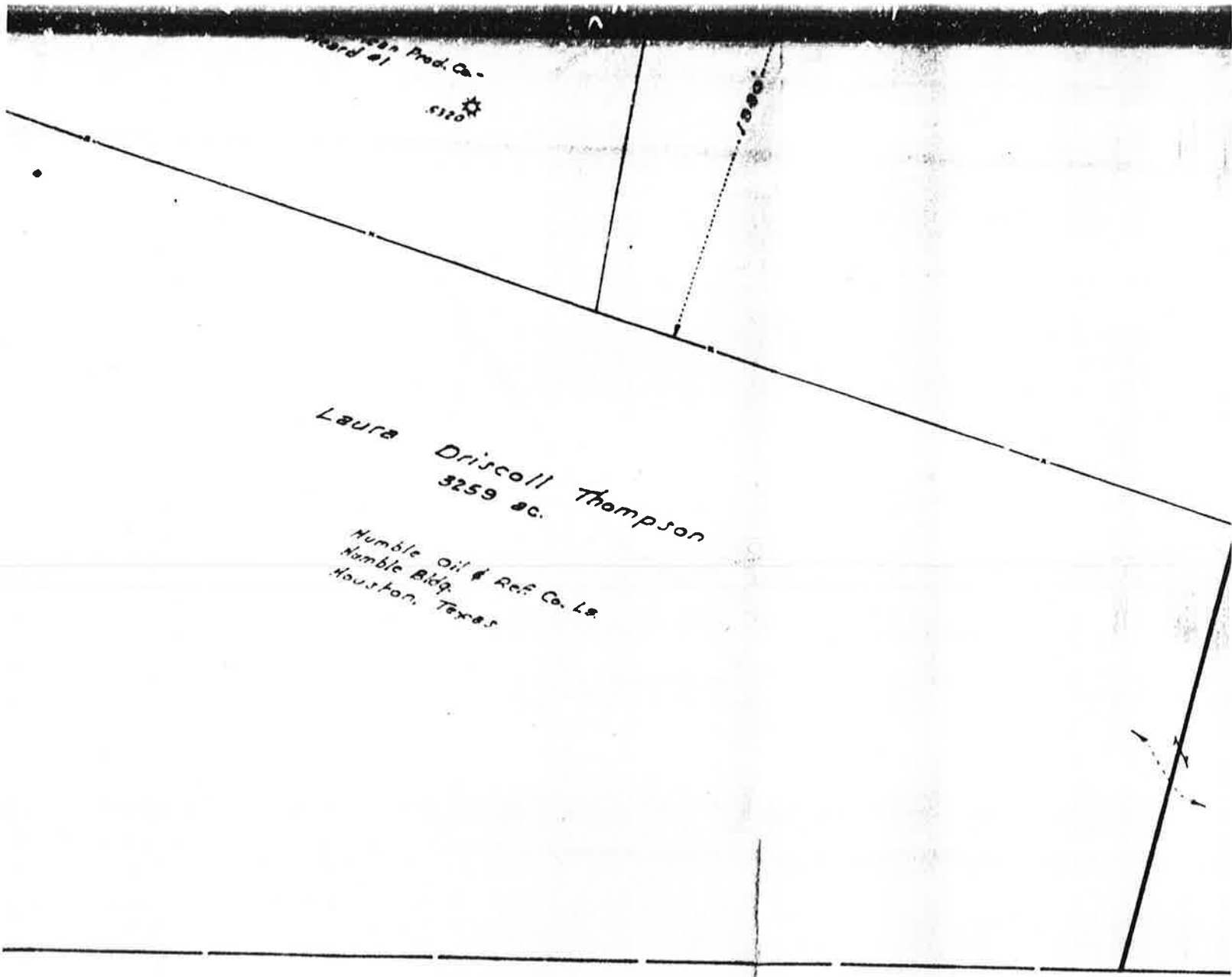
Crystal Schlather Crystal Schlather

Name W. Long Address Beeville, Texas



GARRETT
ROACHE
A-59
Josephine Chestnutt
1050.55 ac.
Union Producing Company Ls., 20.239
ROACHE
Penwar Oil Corp.
Josephine Chestnutt
5520'
419.6 ac.

52019



Before me a Notary Public in and for Bee County, Texas, on this day personally appeared the undersigned who being by me duly sworn, upon oath says: That the accompanying map or plat is accurate and correct to the best of his knowledge and belief and follows specifically the courses and distances given.

W. M. Gill ..... W. M. Gill

Subscribed and sworn to before the undersigned authority on this 11th day of January, 1932, To Certify Which Witness my hand and seal of office.

Crystal Schlabben

Crystal Schlabben, Notary Public, Bee County, Texas.

operator of lease: Union Producing C
Name of lease: Josephine Chestnut
Total acres in lease: 10.50.55
Acres Covered by this plat: 10.50.55
Description of property: Southwe
portion of the Josephine Chestnut 10.5
tract, Garrett Roache Sur. A-59
Field: Medio Creek
County: Bee

52019

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2
Well Record

File No. La. 20,239

Operator Union Producing Company Address P. O. Box 211, Beeville, Texas

County Bee Survey G. Roach Block No. Sec. No.

Lease Name Chestnutt Well No. 1 Elevation Gr. 156.10 (Above Sea Level)

Name of Field in which well is located Medio Creek

Form 1 (Notice of Intention to Drill) Was Filed in Name of Union Producing Company

Drilling Commenced 2-27, 1952 Drilling Completed 6-8, 1952

Is this a NEW WELL? Yes : DEEPENING? or a WORK-OVER?

Correspondence regarding this well should be sent to: Name D. Lane Address Beeville, Texas

Has an allowable been assigned to this well? No

RECEIVED
JUN 23 1952
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

SIZE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
8 5/8"	938	0					(320 sacks cement)
5½"	5288	[illegible]					(325 sacks cement)
2 3/8"	4846	7					(Tubing)

Initial Production of Gas—Volume MCF 24 hrs. Pressure Tubing 1230, Csg. 1600 lbs. per square inch

Initial Production of Oil: Barrels 15.55 BPD with G.O.R. 22119:1

Initial Production of Distillate: Barrels

Is this an OIL well? Yes, a GAS well? or a Dry HOLE?

DESCRIPTION OF PROPERTY
NORTH

WEST

EAST

SOUTH

GENERAL REMARKS

TD 5302', P.B. 4865'

Perforated 4861-62 with 6 shots

5302

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS

Method of shutting off water Block squeeze Is water completely shut off? No

Amount of water with oil 4.06 bbls. per cent 20.70

I, W. M. Gill, being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

W. M. Gill
District Engineer
Representative of Company.

Subscribed and sworn to before me this 23rd day of June, 19 52

Crystal Schlather
Crystal Schlather
Notary Public
Beeville, Bee County, Texas.

Atlantic Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

82019

RECEIVED
JUN 23 1952
Railroad Commission of Texas
OIL & GAS DIVISION
BEAUMONT, TEXAS

BEE COUNTY, TEXAS
MEDIO CREEK FIELD
UNION PRODUCING COMPANY
NO. 1 JOSEPHINE CHESNUTT
(LOC: 660' NWL & 1980' SWL of 1470.15 Ac. Lse. SC: begin at NE cor. of G. Roache Sur., Ab. 59, go 9500' SW along the SEL, thence 2475' NW at R/A to Loc.)

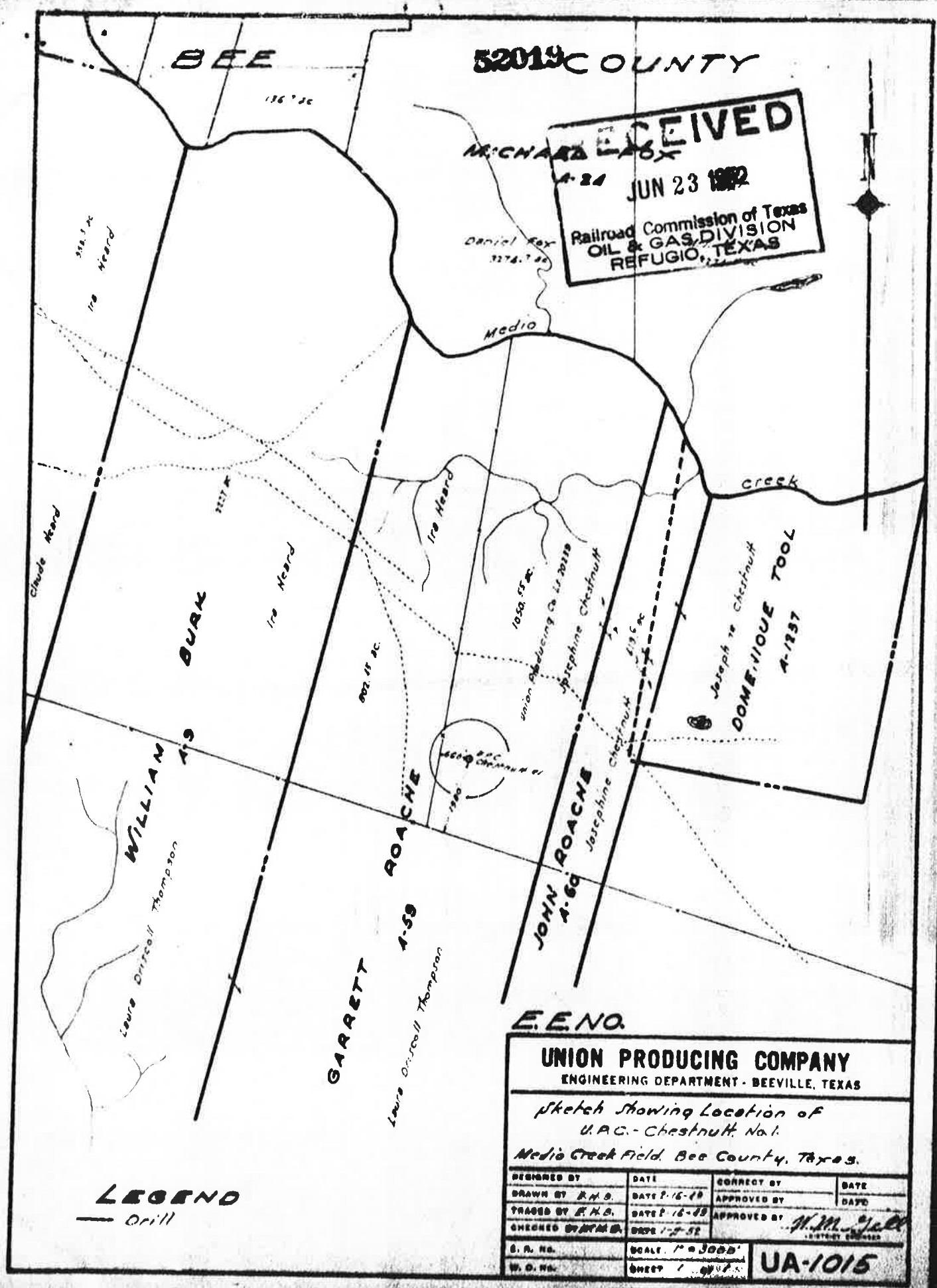
COMMENCED: 3-[illegible]-52
COMPLETED: 6-7-52
ELEVATION: 164'-D, 156'-G
156.1'-G (UPC)
TOTAL DEPTH: 5302'
PERFS: 4861-62 w/6 shots
IP: 15.55 BPD, 1/8" choke, TP 1280#, CP 1600#, GOR 22,119:1, Gr. 25.6

CASING RECORD: Set 22 joints of 8-5/8" OD Seamless casing at 950' with 400 sacks.
Set 169 joints of 5½" OD Seamless casing at 5299' with 350 sacks.

TUBING RECORD: Ran 156 joints of 2-3/8" OD seamless tubing at 4856.13'.

0-470	sand and sticky shale
2155	sand and shale
2867	hard sand and shale
2900	shale
3540	sandy shale and shale
3575	shale (c)
3581½	oil sand (c)
3588	shale (c)
3635	shale and sandy shale
3648	shale (c)
3654	sand and sandy shale (c)
3659	sandy shale (c)
3678	shale (c)
3679	sand (c)
3683	shale (c)
3860	shale
3921	shale (c)
3925	no recovery (c)
3929	sandy shale (c)
3934	no recovery (c)
3957	shale (c)
3967	sand (c)
3969	sandy shale (c)
4001	sand and shale (c)
4094	hard sand and shale
4272	hard sandy shale and shale
4309	shale and sandy shale (c)
4314½	hard sand (c)
4316	sand (c)
4316½	sandy shale (c)
4340	shale (c)
4345	sand (c)
4347	shale (c)
4592	hard shale and sandy shale
4629	hard shale and sticky streaks
4712	shale and sticky shale
4825	shale and sandy shale
4838	sand (c)
4864	sand with odor (c)
4869	sand (c)
4875	shale (c)
4901	sand (c)
4902	shaly sand (c)
4990	hard sand and shale
5045	sand (c)
5056	sand and sandy shale (c)
5220	hard shale
5252	shale (c)
5299	shale
5302	hard sand

TD 5302'


BEE COUNTY
52019
RECEIVED
JUN 23 1952
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS
MICHAEL FOX
A-24
Daniel Fox
Medio
Creek
Ira Heard
Claude Heard
BURK
WILLIAM
A-9
Laura Driscoll Thompson
GARRETT ROACHE
A-59
Laura Driscoll Thompson
JOHN ROACHE
A-60
Josephine Chestnut
Union Producing Co. Lt. 20239
Josephine Chestnut
DOMENIQUE TOOL
A-1237
Joseph Chestnut
E.E.NO.
LEGEND
Drill
UNION PRODUCING COMPANY
ENGINEERING DEPARTMENT - BEEVILLE, TEXAS
Sketch Showing Location of
U.P.C.-Chestnut No. 1.
Medio Creek Field, Bee County, Texas.
DESIGNED BY
DATE
CORRECT BY
DATE
DRAWN BY
DATE
APPROVED BY
DATE
TRACED BY
DATE
APPROVED BY
CHECKED BY
DATE
DISTRICT ENGINEER
E. R. NO.
SCALE
W. O. NO.
SHEET
UA-1015

27553

Please Refer to File No.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED R. R. C. OF TEXAS
MAY 28 1965
SAN ANTONIO, TEXAS

Form 2A
Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

M

Company Burch Spears, Inc. Address Box 3187, Victoria, Texas

Sec. No. --- Block No. --- Survey Garrett Roche A-59 County Bee

Well No. 1 Name of Lease Josephine Chesnutt No. of Acres 1470.15 Elev. 164

Name of Field in which well is located Medio Creek

Located 15 Miles Southeast Direction from Devville, Texas (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Union Producing Company

Drilling Commenced March 15, 1952. Drilling Completed May 21, 1952

Has this well ever produced Oil?: No or Gas? Yes

Character of Well (Oil, Gas or Dry) Gas Total Depth 5303

Date you wish to Plug May 20, 1965.

Name of Party Plugging Well Mr. Burch Spears Address Box 3187, Victoria, Texas

Correspondence regarding this well should be sent to: Name Mr. Burch Spears

Address Box 3187, Victoria, Texas

Initial Production of Gas: Volume (MCF) 10,000 24 hrs. Pressure 1760 lbs. per square inch

Initial Production of Oil: Barrels None

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks: Notification given by telephone and well plugged in accordance with directions issued by Railroad Commission Office, San Antonio, Texas.

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

RECEIVED
MAY 31 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

27553

Please Refer to File No.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED R. R. C. OF TEXAS MAY 28 1965 SAN ANTONIO, TEXAS

Form 2A Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

M

Company Burch Spears, Inc. Address Box 3187, Victoria, Texas

Sec. No. --- Block No. --- Survey Garrett Roche A-59 County Bee

Well No. 1 Name of Lease Josephine Chesnutt No. of Acres 1470.15 Elev. 164

Name of Field in which well is located Medio Creek

Located 15 Miles Southeast Direction from Devville, Texas (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Union Producing Company

Drilling Commenced March 15, 1952, Drilling Completed May 21, 1952

Has this well ever produced Oil? No or Gas? Yes

Character of Well (Oil, Gas or Dry) Gas Total Depth 5303

Date you wish to Plug May 20, 1965.

Name of Party Plugging Well Mr. Burch Spears Address Box 3187, Victoria, Texas

Correspondence regarding this well should be sent to: Name Mr. Burch Spears

Address Box 3187, Victoria, Texas

Initial Production of Gas: Volume (MCF) 10,000 24 hrs. Pressure 1760 lbs. per square inch

Initial Production of Oil: Barrels None

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks: Notification given by telephone and well plugged in accordance with directions issued by Railroad Commission Office, San Antonio, Texas.

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

RECEIVED
MAY 31 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Rotary Space	0	12.0	
Soil, Clay, Caliche	12.0	1300	
Sand, Shale Streaks	1300	2300	(From Electric Log)
Shale, Sand Streaks	2300	2835	
Sand	2835	3435	
Shale, Sand Streaks	3435	3955	
Sand	3955	4015	
Shale	4015	4310	
Sand	4310	4320	
Shale	4320	4825	
Sand	4825	5040	
Shale	5040	5150	
Sand	5150	5158	
Shale	5158	5250	
Sand	5250	5303	Total Depth

Method of shutting off water Cementing Casing Is water completely shut off? Yes

Amount of water with oil --- per cent ---

I, Jack L. Slack, Agent

being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Jack L. Slack
Representative of Company.

Subscribed and sworn to before me this 26 day of May, 1965

Betty J. Gruben
Notary Public

Refugio County, Texas.

27553

Please Refer to File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED R. R. C. OF TEXAS MAY 28 1965 AUSTIN, TEXAS

Form 4 Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH FIELD IS LOCATED

Company Burch Spears, Inc. Address Box 3187, Victoria, Texas

Sec. No. -- Block No. -- Survey Garrett Roche A-58 County Bee

Well No. 1 Name of Lease Josephine Chesnutt No. of Acres 1470.15

Name of Field in which well is located Medio Creek Date well was plugged May 20, 19 65

Form 1 (Notice of Intention to Drill) Was Filed in Name of Union Producing Company

Character of Well at the time of completion: Oil _____ bbls; Gas 10,000 (Initial Production) Cu. Ft.; Dry _____

Amount well producing when plugged: Oil -- (Initial Production) bbls; Gas Trace Cu. Ft.; Water 100 bbls.

Has this well ever produced oil or gas? Yes; Gas

Total Depth 5303 feet. Top of each producing sand 4829 feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes, mud weighed 10.2 pounds per gallon.

How was mud applied? Circulated into place.

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? L.W. Cast Iron plug at 4800. Perforated 3567-3576 and tested saltwater. Laid cement plug from 3600' up to 3140' then filled 5-1/2 casing with 10.2#/gal. mud to surface. Put 35' cement plug in top.

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
8-5/8	938.05	--	--	--	938.05	--	Howco.
5-1/2	5288.00	--	--	--	5288.00	--	Howco.

Show depth found and thickness of all water, oil and gas formations Fresh water sands to 900 feet. Gas zone before depletion from 4810 to 4860. All other sands contain saltwater.

Have all abandoned wells on this leash been plugged according to Commissions rules? Yes.

Manner of confining all oil, gas or water to strata: Cementing Casing.

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:
Humble Oil and Refining Company, Wilson Tower, Corpus Christi, Texas.
L. D. Thompson, Beeville, Texas.
Ira Heard Estate, Refugio, Texas.

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MAY 31 1965
Railroad Commission of Texas
AUSTIN, TEXAS

Was notice given before plugging to all available adjacent lease owners as required by Rule 10? Yes.

I, Jack L. Slack, Agent, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name Jack L Slack, Title Agent

Subscribed and sworn to before me this 26 day of May, 1965.

Betty J Gruben
Notary Public Refugio County, Texas

Correspondence regarding this well should be addressed to:
Name Burch Spears Address Box 3187, Victoria, Texas

MAP ID #26

API# 42-025-32772
GAS WELL
PLUGGED

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. (If available) 025-32772

1 RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or Id. Number: 161201

2. FIELD NAME (as per RRC Records): Medio Creek (3900)

3. Lease Name: Chato Bauer

5. Well Number: 1

6. OPERATOR: Hamman Oil & Refining Company

6a. Original Form W-1 Filed in Name of: HAMMAN OIL AND REFINING COMPANY

10. County: Bee

7. ADDRESS: P O Box 13028, Houston, TX 77219

6b. Any Subsequent W-1's Filed in Name of

11. Date Drilling Permit Issued: 6/28/96

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 1100 Feet From NW Line and 1350 Feet From SW Line of the Chato Bauer Lease

12. Permit Number: 449635

9a. SECTION, BLOCK, AND SURVEY: Garrett Roache A-59

9b. Distance and Direction From Nearest Town in this County: 12.7 Miles SE from Beeville

13. Date Drilling Commenced: 7/9/96

16. Type Well (Oil, Gas, Dry): GAS

Total Depth: 5409

17 If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 7/17/96

18. If Gas, Amt. of Cond. on Hand at time of Plugging: None

15. Date Well Plugged: 3-24-98

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	3-23	3-23	3-23	3-23	3-23	3-23		
20. Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½	4½	4½	4½		
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	3746	2792	2260	1375	600	13		
*22. Sacks of Cement Used (each plug)	12	12	12	12	35	4		
*23 Slurry Volume Pumped (cu. ft.)	13.80	14.16	13.62	13.80	41.30	4.72		
*24. Calculated Top of Plug (ft.)	3597	2657	2125	1253	492	3		
25. Measured Top of Plug (if tagged) (ft.)	–	–	–	–	–	–		
*26. Slurry Wt. #/Gal.	15.8	15.6	15.9	15.8	15.6	15.6		
*27. Type Cement	H	H	H	H		H		

RECEIVED
R.R.C. OF TEXAS
APR 21 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24.0	547	544	12¼
4½	11.60	4990	4987	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4855	TO	4857	FROM	2792	TO	2802
FROM	4853	TO	4855	FROM	2260	TO	2262
FROM	3913	TO	3932	FROM		TO	
FROM	3924	TO	3927	FROM		TO	
FROM	3746	TO	3756	FROM		TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

RECORD CODIFICATION

Return to Records

Signature of Cementer or Authorized Representative

MAY 25 1999

Pat's P & A, Inc.

Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Michael A. Marino — REPRESENTATIVE OF COMPANY

Engineer — TITLE

4/19/99 — DATE

Phone 713 526-7417 — A/C NUMBER

MICHAEL A. MARINO

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — [X] Yes [ ] No

32. How was Mud Applied? Circulated through tubing

33. Mud Weight 10.0 LBS/GAL

34. Total Depth 5409

Depth of Deepest Fresh Water 1325

Other Fresh Water Zones by T.D.W.R. — TOP / BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: Pat's P & A, Inc., P.O. Box 0126, Bishop, TX 78343

Date RRC District Office notified of plugging: 3-23-99

38. Name(s) and Address(es) of Surface Owners of Well Site

J. W. Bauer
P.O. Box 161
Refugio, Texas 78377

39. Was Notice Given Before Plugging to the Above?

yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Ddte FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Notified Pete Peterson with RRC on setting plugs ~~and received verbal~~ approval to change plug #5 to 35 sx instead of 135 sx.

Perforated 4 1/2 casg. @ 600' - Established circulation - mix 35 sx cmt. and set plug ~~from 600'~~ 492' in 4 1/2 & 4 1/2 x 8 5/8 casing.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No 42-02532772

7. RRC District No. 02

8. RRC Gas ID No 161201

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

RECEIVED R.R.C. OF TEXAS NOV 12 1996 O.G. SAN ANTONIO, TX.

1 FIELD NAME (as per RRC Records or Wildcat): MEDIO CREEK (~~FRIO~~ 3900)

2. LEASE NAME: CHATO BAUER

9 Well No: 1

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): HAMMAN OIL & REFINING COMPANY

RRC Operator No: 350200

10 County of well site: BEE

4 ADDRESS: P.O. BOX 13028 HOUSTON, TEXAS 77219

11 Purpose of filing: Initial Potential [X]; Retest [ ]; Reclass [ ]; Well record only (Explain in remarks) [ ]

5 Location (Section, Block, and Survey): GARRETT ROACHE A-59

5b Distance and direction to nearest town in this county: 12.7 MILES SE FROM BEEVILLE

6 If operator has changed within last 60 days, name former operator:

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #:

13 Pipe Line Connection: N/A

14. Completion or recompletion date: 8/12/96

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [ ] No

16 Type of Electric or other Log Run: DIL-CN-CD-CBL

Section I — GAS MEASUREMENT DATA

Date of Test: 10/22/96

Gas Measurement Method (Check One): Orifice Meter [X] ▶ Flange Taps [X] Pipe Taps [ ]; Positive Choke [ ]; Orifice Vent Meter [ ]; Pitot Tube [ ]; Critical-flow Prover [ ]

Gas produced during test: 68 MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	3.068	1.000	6341.17	115	22	62	0.9981	1.0281	1.0068	330
2	3.068	1.000	6341.17	115	18	66	0.9943	1.0281	1.0067	297
3	3.068	1.000	6341.17	115	12	66	0.9943	1.0281	1.0067	242
4	3.068	1.000	6341.17	115	8	66	0.9943	1.0281	1.0067	198

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg Shut-In Temp	Bottom Hole Temp.
0.5676	– Deg. API	– CF/Bbl	G_{mix} = 0.568	112 °F	151 °F @ 3,926 (Depth)

$D_{eff}^{8/3}$ = 6.310

$\sqrt{T_f}$ = $\sqrt{572}$ = 23.91

RECEIVED CODIFICATION MAR 26 1997

$\sqrt{G_L}$ = $\sqrt{2178.4}$ = 46.67

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{7,054.46}{23.91} = 295.03$

$\frac{\sqrt{G_L}}{C} = \frac{46.67}{295.03} = 0.1582$

Run No	Time of Run Min	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			1,015	70	1,030				
1	180	10/64	815	72	664	51.8	2.7	817	0.998
2	60	9/64	825	70	681	46.7	2.2	826	0.998
3	60	8/64	830	70	689	38.1	1.5	831	0.999
4	30	7/64	835	70	697	31.1	1.0	836	0.999

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In					1,349	1,819	
1	0.999	0.071	1.104	1.0819	884	781	1,038
2	0.999	0.071	1.105	1.0821	894	800	1,019
3	0.999	0.071	1.106	1.0822	899	809	1,010
4	1.000	0.071	1.106	1.0822	904	818	1,001

Angle of Slope: θ 45.0; n 1.000

Absolute Open Flow: 580 MCF/DAY

WELL TESTER'S CERTIFICATION I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

James S. Andres — STUART PETROLEUM TESTERS, INC. —

Signature Well Tester JAMES S. ANDRES — Name of Company — RRC Representative

Returned to Records Retention

OPERATOR'S CERTIFICATION. I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

MICHAEL A. MARINO — Michael A. Marino — ENGINEER — 11/6/96 — Tel: (713) 526-7417

Signature Operator's representative — Title — Date — A/C Number

HS

MAPPING — 025-32772

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

VALID PERMIT PRODUCTION ALLOCATION

DEC 10 1996

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 6/28/96 — PERMIT NO. 449635

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: HAMMAN OIL AND REFINING COMPANY

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 220

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 7/9/96 — Completed 7/17/96

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1100 Feet From NW Line and 1350 Feet from SW Line of the CHATO BAUER Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 157.7' RKB

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay	28. Total Depth	29. P. B. Depth	30. Surface Casing Determined by:
3913	5409	4943	Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] Dt. of Letter 7/15/96

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools | Cable Tools

34. Name of Drilling Contractor: CORPUS CHRISTI DRILLING

35. Is Cementing Affidavit Attached? [ ] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24.0	547		(*)	12 1/4	SURFACE	350
4 1/2	11.60	4990		(**)	7 7/8	570 (+)	1345

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	3830	3839

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	3924	To	3927
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
3913-22', 3930-32'	25 sks class H+0.5% LWL + 5% Salt
	50 sks Class H + 5% Salt

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
VICKSBURG	4850'		
CATAHULA	2950'		
FRIO	3920'		

REMARKS (*) LEAD 115 sks HLC (A) + 3% Salt; Tail 110 sks Class A + 2% CaClz

(**) Lead 400 sks HLC (A) + 3% Salt + 0.6% HR-7; Tail 500 sks 50/50 POz(A) + 5% Salt+0.5% Halad-9

(+) See W-15 Attachment letter from operator

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): MEDIO CREEK (FRIO 3900)	2. LEASE NAME: Chato Bauer
3. OPERATOR: HAMMAN OIL AND REFINING COMPANY	
4. ADDRESS: P. O. BOX 13028, HOUSTON, TEXAS 77219	
5. LOCATION (Section, Block, and Survey): GARRETT ROACHE A-59	

6. RRC District: 02	
7. RRC Lease Number. (Oil completions only)	
8. Well Number: 1	
9. RRC Identification Number (Gas completions only): 161201	
10. County: Bee	

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
498	498	1/4	0.43	2.14	2.14
1488	990	1/4	0.43	4.26	6.40
2464	976	1/2	0.87	8.49	14.89
3445	981	1/2	0.87	8.53	23.42
4425	980	1/2	0.87	8.53	31.95
5409	984	3/4	1.31	12.89	44.84

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If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 5409 feet = 44.84 feet.

*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 1100 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Robert R. Kullin

Signature of Authorized Representative

Robert R. Kullin - President

Name of Person and Title (type or print)

Corpus Christi Drilling Company

Name of Company

Telephone: 512 (Area Code) 991-8400

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Michael A. Marino

Signature of Authorized Representative

MICHAEL A. MARINO - ENGINEER

Name of Person and Title (type or print)

HAMMAN OIL AND REFINING COMPANY

Operator

Telephone: 713 (Area Code) 526-7417

Railroad Commission Use Only:

Approved By: KAMUTH SCHNEIDER Title: GEOLOGIST Date: 11-12-96

* Designates items certified by company that conducted the inclination surveys.

Cementer Fill in shaded areas.
Operator Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No	4. County of Well Site
HAMMAN OIL AND REFINING COMPANY	350200	02	BEE

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
MEDIO CREEK (FRIO 3900)	42- 02532772	449635

8. Lease Name	9. Rule 37 Case No	10. Oil Lease/Gas ID No	11. Well No.
CHATO BAUER		16120	1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		7/9/96					
13. •Drilled hole size		12 1/4					
•Est. % wash or hole enlargement		---					
14. Size of casing (in. O.D.)		8 5/8					
15. Top of liner (ft.)							
16. Setting depth (ft.)		547					
17. Number of centralizers used		5					
18. Hrs. waiting on cement before drill-out		8					
1st Slurry	19. API cement used: No. of sacks ▶	115					
	Class ▶	HLC (A)					
	Additives ▶	3% SALT					
2nd Slurry	No. of sacks ▶	110					
	Class ▶	A					
	Additives ▶	2% CACL2					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	212.75					
	Height (ft.) ▶	515.47					
2nd	Volume (cu. ft.) ▶	137.50					
	Height (ft.) ▶	333.14					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	350.25					
	Height (ft.) ▶	848.61					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		YES					

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22. Remarks CORPUS CHRISTI DRILLING (HAMMON OIL & REFINING)
CHAPO BAUER #1
BEE COUNTY TEXAS
tkt # 995333 20 BBLS CEMENT RETURNS

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

WESLEY HAWKINS/SERVICE SUPERVISOR — Name and title of cementer's representative
HALLIBURTON ENERGY SVCS. — Cementing Company
Signature

RT 6, BOX 452 — Address
VICTORIA, TEXAS 77901 — City, State, Zip Code
448-0645 — Tel.: Area Code Number
7/12/96 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

MICHAEL A. MARINO — Typed or printed name of operator's representative
ENGINEER — Title
Signature

P. O. BOX 13028 — Address
HOUSTON TX 77219 — City, State, Zip Code
(713)526-7417 — Tel.: Area Code Number
10/31/96 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, **in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1 Operator's Name (As Shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
HAMMAN OIL AND REFINING COMPANY	350200	02	BEE

5 Field Name (Wildcat or Exactly as Shown on RRC Records)	6 API No	7 Drilling Permit No
MEDIO CREEK (FRIO 3900)	42- 02532772	449635

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
CHATO BAUER		16/201	1

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date				7/17/96			
13. *Drilled Hole Size				7 7/8			
*Ext. % Wash or Hole Enlargement				2%			
14. Size of Casing (in. O.D.)				4 1/2			
15. Top of Liner (ft)				---			
16. Setting Depth (ft)				4990			
17. Number of Centralizers Used				30			
18. Hrs. Waiting on Cement Before Drill-Out				---			
1st Slurry	19. API Cement Used: No. of Sacks >			400			
	Class >			HLC (A)			
	Additives >			SEE REMARKS			
2nd Slurry	No. of Sacks >			500			
	Class >			50/50 POZ (A)			
	Additives >			SEE REMARKS			
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >			740			
	Height (ft) >			3248.6			
2nd	Volume (cu.ft.) >			605			
	Height (ft) >			2655.8			
3rd	Volume (cu.ft.) >						
	Height (ft) >						
total	Volume (cu.ft.) >			1345			
	Height (ft) >			5904.3			
21. Was Cement Circulated to Ground Surface (or Bottom of Cellar) Outside Casing?				NO			

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SAN ANTONIO, TX

22 Remarks

HAMMAN OIL & REFINING CO. Additives 1st Cmt: 3% Salt, 0.6% HR-7
CHATO BAUER #1 Additives 2nd Cmt: 5% Salt, 0.5% Halad-9
BEE COUNTY TEXAS * SEE ATTACHED LETTER FROM OPERATOR
TKT #963073

OVER ▶

CEMENTING TO PLUG AND ABANDON	[redacted]G #1	PLUG #2	PLUG #3	PLUG #4	[redacted]LUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Data								
24. Size of Hole or Pipe Plugged (inches)								
25. Depth to Bottom of Tubing or Drill Pipe (feet)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cuft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, if Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

ROBERT GLENN — SERVICE SUPERVISOR — HALLIBURTON ENERGY SERVICES — Robert Glenn

Name and Title of Cementer's Representative — Cementing Company — Signature

RR 6 BOX 452, VICTORIA, TX 77901 — 800/448-0645 OR 512/575-1443 — 7/23/96

Address — City — State — Zip Code — Tel: Area Code — Number — Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

MICHAEL A. MARINO — ENGINEER — Michael A. Marino

Typed or Printed Name of Operators Representative — Title — Signature

P. O. BOX 13028 — HOUSTON — TX — 77219 — (713)526-7417 — 10/31/96

Address — City — State — Zip Code — Tel: Area Code — Number — Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

* An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
* Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
* Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rull 12 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

▶ Address to: Railroad Commission of Texas, Oil and Gas Division, Drilling Permits, P. O. Box 12967, Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150, 9001' or deeper - $200

Purpose of filing (mark appropriate boxes): ☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter ☐ Horizontal ☐ Directional Well ☐ Sidetrack ☒ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42- 02532772; Permit No. 449635; Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): HAMMAN OIL AND REFINING COMPANY
3. RRC Operator No.: 350200
4. RRC District No.: 02
5. County of Well Site: BEE
2. Address (including city and zip code): P. O. BOX 13028, HOUSTON, TEXAS 77219
6. Lease Name (32 spaces maximum): CHATO BAUER
7. RRC Lease/ID No.:
8. Well No.: 1
9. Total Depth: 5400
10. Location
• Section ____ Block ____ Survey GARRETT ROACHE Abstract No. A- 59
• This well is to be located 12.7 miles in a SE direction from BEEVILLE which is the nearest town in the county of the well site.
11. Distance from proposed location to nearest lease or unit line: 100 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 220 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
MEDIO CREEK (FRIO 3900)	3900	467/1200	40	40	NO	---	G		1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1100' FNWL, 1350 FSWL
• Survey/Section 1100' FNWL, 10050' FNEL (Creek)

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see instructions for Rule 37. Yes ☐ No ☒

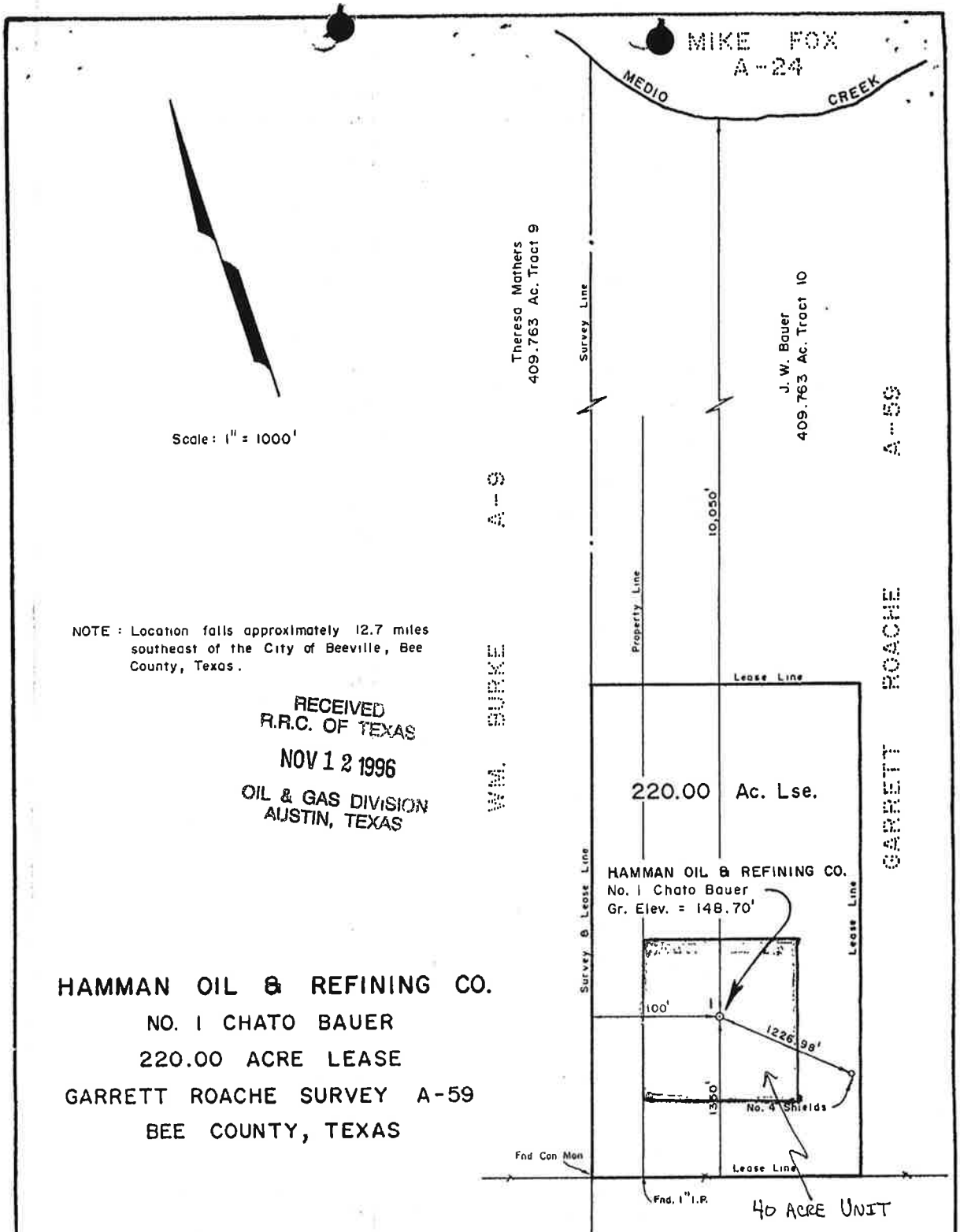
Remarks: ADD MEDIO CREEK (FRIO 3900) TO FIELD NAME

I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: Michael A. Marino
Name and title of operator's representative: MICHAEL A. MARINO
Date: 10/7/96 (mo. day yr.)
Tel.: (713) 526-7417 (Area Code Number)

• RRC Use Only •
203243 NOV1296
449635

MAPPING



NOTE : Location falls approximately 12.7 miles southeast of the City of Beeville, Bee County, Texas.

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OIL & GAS DIVISION
AUSTIN, TEXAS

HAMMAN OIL & REFINING CO.

NO. 1 CHATO BAUER

220.00 ACRE LEASE

GARRETT ROACHE SURVEY A-59

BEE COUNTY, TEXAS

State of Texas I
County of Bee I

I hereby certify that this plat accurately represents a survey made on the ground under my direction.

George E. Harris
Registered Professional Land Surveyor
No. 826

Date June 20, 1996

STATE OF TEXAS
REGISTERED
GEORGE E. HARRIS
826
PROFESSIONAL
LAND SURVEYOR

HARRIS ENGINEERING
P.O. BOX 426 (512) 358-1793
BEEVILLE, TEXAS 78104

File: 96018

Form W-1
Rev. 3/93

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32772
▶ Permit No. 449635 AMA
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): Hamman Oil & Refining Company
3. RRC Operator No.: 350200
4. RRC District No.: 2
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): Chato Bauer
7. RRC Lease/ID No.:
8. Well No.: 1
9. Total Depth: 5400'

2. Address (including city and zip code):
P. O. Box 13028
Houston, Texas 77219

OK 6/24/96

967341

10. Location
• Section _____ Block _____ Survey Garrett Roache Abstract No. A-59
• This well is to be located 12.7 miles in a SE direction from Beeville, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 1100 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 220 (OUTLINE ON PLAT.)

Granted 6/28/96

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat 4001	3500-5400	467/1200	40	40	NO	---	O & G	1	1
Medio Creek (4850) 60198875	4850	467/1200	40	40	NO	---	O	1	--
Medio Creek (4300) 60198625	4300	467/1200	40	40	NO	---	G	--	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1100' FNWL & 1350' FSWL
• Survey/Section 1100' FNWL & 10,050 ~~FNEL (Creek)~~

Code A1200

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X]
If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [ ] No [X]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Bill Goodwin
Signature

Bill Goodwin - Engineer Mgr.
Name and title of operator's representative

6/21/96
Date: mo. day yr.

(713) 526-7417
Tel.: Area Code Number

150.00 App

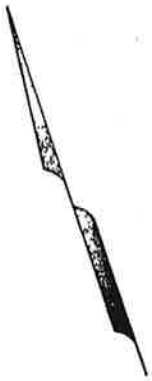
213192 JUN 24 96

• RRC Use Only •

449635

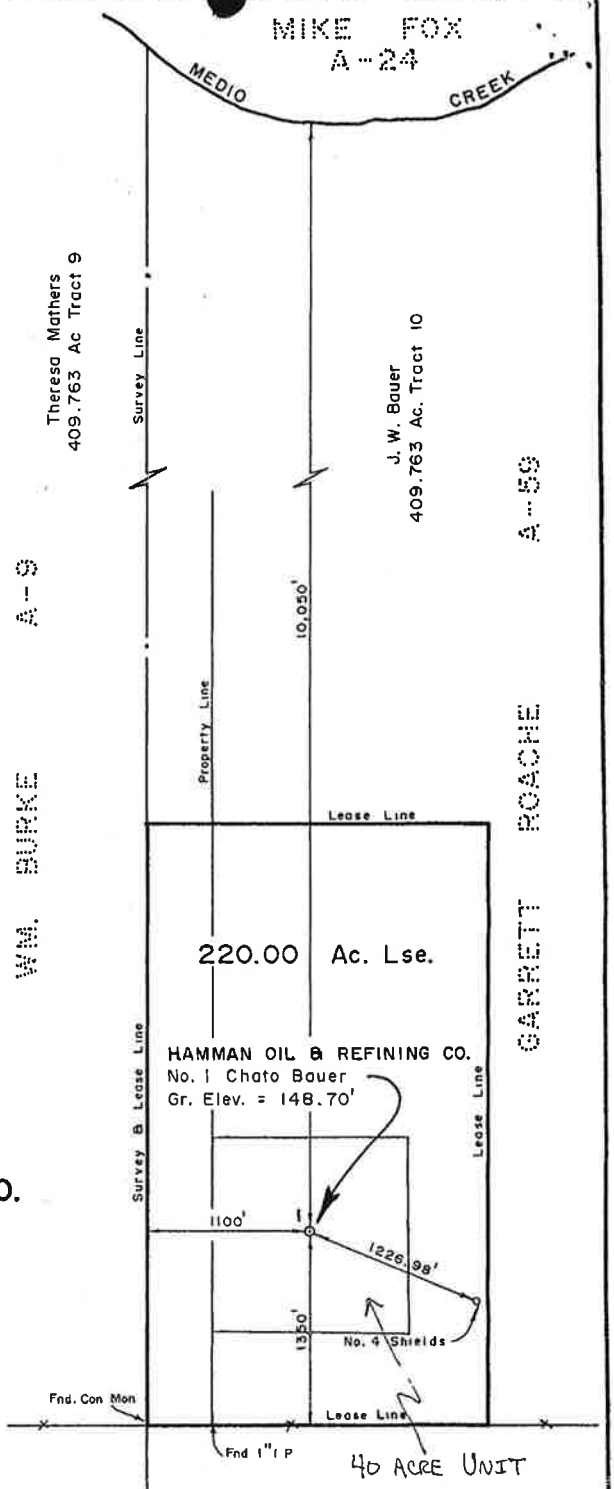
MAPPING 743

025-32772



Scale · 1" = 1000'

NOTE · Location falls approximately 12 7 miles southeast of the City of Beeville, Bee County, Texas.



Mrs. Laura D. Thompson

OIL & GAS
RRC
JUN 24 1996

HAMMAN OIL & REFINING CO.

NO. 1 CHATO BAUER

220.00 ACRE LEASE

GARRETT ROACHE SURVEY A-59

BEE COUNTY, TEXAS

State of Texas I
County of Bee I

I hereby certify that this plat accurately represents a survey made on the ground under my direction.

George E. Harris

George E. Harris
Registered Professional Land Surveyor
No. 826

Date June 20, 1996

STATE OF TEXAS
REGISTERED
GEORGE E. HARRIS
826
PROFESSIONAL
LAND SURVEYOR

HARRIS ENGINEERING
P.O. BOX 426 (512) 358-1793
BEEVILLE, TEXAS 78104

File: 96018

MAP ID #27

API# 42-025-30001
GAS WELL
PLUGGED

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
2. RRC Lease Number: 06527
3. Well No.: 3
10. County: Bee
11. Date Drilling Permit Issued: 1-24-69
12. Date Drilling Commenced: 1-25-69
13. Date Drilling Completed: 2-[illegible]-69
14. Date Well Plugged: 2/27/71

2. FIELD NAME (as per RRC Records): [illegible]
3. LEASE NAME: Ira Heard
6. OPERATOR: [illegible]
7. ADDRESS: 1442 [illegible], San Antonio, Texas 78203
8. SURFACE LOCATION: [illegible] FEET FROM [illegible] LINE, AND 10,000 FEET FROM North LINE
9. SECTION, BLOCK AND SURVEY: [illegible], A-39
15. Type of Well (Oil, Gas, Dry): [illegible]
16. Type of Completion (Single, Dual, Etc.): Single
17. Total Depth: 5,122'
18. FORM W-1 Intention to Drill Filed in Name of: [illegible]
19. Manner of Placement:

PLUG #1	[illegible]	SACKS	TOP [illegible]	BOTTOM [illegible]	TYPE	A API
PLUG #2	[illegible]	SACKS	TOP [illegible]	BOTTOM [illegible]	TYPE	A API
PLUG #3	[illegible]	SACKS	TOP [illegible]	BOTTOM [illegible]	TYPE	A API
PLUG #4		SACKS	TOP	BOTTOM	TYPE	

20. Was Well Filled with Mud-Laden Fluid according to the regulations of the Railroad Commission? YES [illegible] NO
21. How was Mud applied? Pump
22. Mud Weight: [illegible] LBS GAL
23. Depth of Deepest Fresh Water: [illegible] FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [illegible] NO
25. If NO, Explain
26. Name and Address of Party Plugging Well: [illegible], Texas
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
[illegible]	312	--	[illegible]	--
[illegible]	4,964	--	4,2[illegible]	--
[illegible]	4,742	--	--	--

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases
[illegible] 205 [illegible] Mar Blvd, Corpus Christi, Texas 78404
[illegible] Wilson Tower, Corpus Christi, Texas [illegible]

29. Was Notice given before Plugging to each of the above and RRC District Office? YES NO

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

[signature] Operator 3/4/71
REPRESENTATIVE OF COMPANY TITLE DATE

RECEIVED RRC OF TEXAS

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

1971

SAN ANTONIO, TEXAS

*All Dry Holes Fill in Reverse Side

025-30001

30 For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical Sonic Log or such Log must be released to a Commercial Log Service

Log attached Log released to Date

Type Logs:

Driller's Electric Radioactivity Acoustical Sonic

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Medio Creek /4850/	*2. RRC District: 2
*3. Operator: Fred W. Shield	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Ira Heard - RRC Lease No. 04527	*6. Well Number: 3
*7. Location (Section, Block, and Survey): Garrett Roach Survey, A-59	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped (cu.ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry Behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar, outside casing)? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	2/27/71	2/27/71	2/27/71			
*20. Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4570	1518	60			
22. Sacks of Cement Used (each plug)	12	12	5	[illegible]		
23. Slurry Volume Pumped (cu. ft.)	14.2	14.2	5.9			
24. Calculated Top of Plug (ft.)	4410	1358	0			
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

R. E. Carpenter

Signature of Cementer or Authorized Representative

R. E. Carpenter - Cementer

Name of Person and Title (type or print)

Texas Acidizers

Cementing Company

P. O. Box 1199

Street Address or P. O. Box

Beeville, Texas 78102

City, State Zip Code

Telephone 512 358-1595

Area Code

February 27th, 1971

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Fred W. Shield

*Signature of Operator or Authorized Representative

Fred W. Shield, Operator

*Name of Person and Title (type or print)

Fred W. Shield

*Operator

1442 Milam Building

*Street Address or P.O. Box

San Antonio, Texas 78205

*City, State Zip Code

*Telephone 512 227 - 7159

Area Code

March 4, 1971

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3.
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

NF

Form W-2
Rev. 7-5-66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District: 2
8. RRC Lease Number: [illegible]
9. Well Number: 3
10. County: See
11. Purpose of Test: Initial Potential [ ] Retest [ ] Reclass [X]

1. FIELD NAME (as per RRC Records or Wildcat): [redacted] MEDIC CREEK (4850)
2. LEASE NAME: Ira Heard
3. OPERATOR: Fred W. Shield
4. ADDRESS: 1442 Milam Building, San Antonio, Texas 78205
5. If Operator has changed within last 60 Days — Give former Operator:
6. LOCATION (Section, Block, and Survey): Garrett Roache A-59
12. If Workover — Give Former Field with Reservoir: See remarks
13. Type of Electric or other Log run: Induction/Neutron
14. Completion Date: 3-14-69

TNPX 5-15-69 J Hay

Section I

POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping — Size & Type of Pump)	18. Choke Size
5/9/69	24	Flowing	13/64

19. Production for Test Period	Oil — BBLS	Gas — MCF	Water — BBLS	Gas — Oil Ratio	Flowing Tubing Pressure
	44.72	19.650	130	439 to 1	850 PSI

20. Calculated 24 Hour Rate	Oil — BBLS	Gas — MCF	Water — BBLS	Oil Gravity — API — 60°	Casing Pressure
	44.72	19.650	130	39	Packer PSI

21. Was Swab or Artificial Flowing Device Used During this Test? Yes [ ] No [X]
22. Oil Produced Prior to Test (New & Reworked Wells):
23. Injection Gas-Oil Ratio: None

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

[signature] R. M. Sikes
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

[signature]
Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified:
Humble Oil & Refining Company
Robert Mosbacher Associates

Date of Notification:
5/8/69
5/8/69

RECEIVED
R.R.C. OF TEXAS
MAY 13 1969

CERTIFICATE
I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

[signature] R. M. Sikes — REPRESENTATIVE OF COMPANY
Dist. Supdt. — TITLE
5/10/69 — DATE

REMARKS: Well initially completed as gas well and placed in Medio Creek (4800') Field RRC Gas Well No. 45960; see Form G-1 filed under date of 3/20/69.

Field # 1577

SECTION II — **DATA ON WELL COMPLETION AND LOG** (Not Required on Retest)

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

25. Date Permit Issued

26. Notice of Intention to Drill this Well was filed in Name of

27. If Special Permit, Give Permit Number

28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well

29. Total Number of Acres in this Lease

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced | Completed

31. Distance to Nearest Well, Same Lease & Reservoir

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: Feet From Line of The ____ Line And ____ Feet From Lease

33. Elevation (DF, RKB, RT, GR, ETC)

34. Was Directional Survey Made: Yes ☐ No ☐

35. Top of Pay | 36. Total Depth | 37. P.B. Depth | 38. Surface Casing Determined By: Recommendation of Texas Water Development Board ☐ Field Rules ☐ Railroad Commission (Special) ☐

39. Is Well Multiple Completion? Yes ☐ No ☐

40. If Multiple Completion List All Reservoir Names (Completions in this Well)

41. Intervals Drilled By: Rotary Tools | Cable Tools

42. Name of Drilling Contractor

43. Is Cementing Affidavit Attached? Yes ☐ No ☐

44. **CASING RECORD** (Report All Strings Set in Well)

Casing Size	Weight LB FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled

45. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

46. **TUBING RECORD**

Size	Depth Set	Packer Set

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From 243 To 4536

From ____ To ____

From ____ To ____

From ____ To ____

48. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used

49. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 3-1-65

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. Field NAME as per RRC Records or Wildcat: Medio Creek (4,350')	2. LEASE NAME: Ira Heard
3. OPERATOR: Fred W. Shield	4. RRC District: 2
5. ADDRESS: 1442 Milam Building, San Antonio, Texas 78205	6. RRC Lease Number: 04527
7. If Operator has changed within last 60 Days — Give former Operator	8. Well Number: 2
9. LOCATION (Section, Block, and Survey): Garett Roache A-59	10. County: Bee
11. If Workover — Give Former Field with Reservoir:	12. Type of Electric or Other Log run: Induction/Neutron
	13. Purpose of Test: Initial Potential ☐ Retest ☒ Recloss ☐
	14. Completion Date: 3-14-69

Section I — POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping — Size & Type of Pump)	18. Choke Size
9-23-70	24	Flowing	7/32

19. Production for Test Period	Oil – BBLS	Gas – MCF	Water – BBLS	Gas – Oil Ratio	Flowing Tubing Pressure
30?	31.39	7.4	275	240 to 1	530 PSI
20. Calculated 24 Hour Rate	Oil – BBLS	Gas – MCF	Water – BBLS	Oil Gravity – API – 60°	Casing Pressure
					PSI

21. Was Swab or Artificial Flowing Device Used During this Test?	22. Oil Produced Prior to Test (New & Reworked Wells)	23. Injection Gas–Oil Ratio
Yes ___ No X		

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, that production was run during duration of this test.

Signature: REPRESENTATIVE OF COMPANY MAKING TEST

List of Offset Operators Notified: none

RECEIVED

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

Date of Notification:

SAN ANTONIO, TEXAS

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY — Operator (TITLE) — 9-29-70 (DATE)

REMARKS: Current alw is 22 bbls/day. Well has produced at the rate of 32 bbls/day for the past two weeks. Request additional allowable for September so that well will not have to be shut in for over production.

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

25. Date Permit Issued

26. Notice of Intention to Drill this Well was filed in Name of

27. If Special Permit, Give Permit Number

28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well

29. Total Number of Acres in this Lease

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced | Completed

31. Distance to Nearest Well, Same Lease & Reservoir

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located — Feet From ____ Line of The ____ Line And ____ Feet From ____ Lease

33. Elevation (DF, RKB, RT, GR, ETC)

34. Was Directional Survey Made: Yes ☐ No ☐

35. Top of Pay | 36. Total Depth | 37. P.B. Depth | 38. Surface Casing Determined By: Recommendation of Texas Water Development Board ☐ Field Rules ☐ Railroad Commission (Special) ☐

39. Is Well Multiple Completion? Yes ☐ No ☐ | 40. If Multiple Completion List All Reservoir Names (Completions in this Well) | 41. Intervals Drilled By: Rotary Tools | Cable Tools

42. Name of Drilling Contractor

43. Is Cementing Affidavit Attached? Yes ☐ No ☐

44. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled

45. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

46. **TUBING RECORD**

Size	Depth Set	Packer Set

47. Producing Interval (this completion) indicate Depth of Perforations or Open Hole

From ____ To ____
From ____ To ____
From ____ To ____
From ____ To ____

48. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used

49. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth

REMARKS

MAP ID #28

API# 42-025-30094
SWD
PLUGGED

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. (if available) 025-30C94

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 08360

2. FIELD NAME (as per RRC Records): Medio Creek (3350)	3. Lease Name: Chato Bauer	5. Well Number: 3D
6. OPERATOR: Hamman Oil & Refining Company	6a. Original Form W-1 Filed in Name of: Fred W. Shield	10. County: Bee
7. ADDRESS: P O Box 13028, Houston, TX 77219	6b. Any Subsequent W-1's Filed in Name of: HAMMAN OIL AND REFINING COMPANY	11. Date Drilling Permit Issued: N/A
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 2125 Feet From NW Line and 1000 Feet From SW Line of the Chato Bauer Lease		12. Permit Number: 469633
9a. SECTION, BLOCK, AND SURVEY: Garrett Roache A-59	9b. Distance and Direction From Nearest Town in this County: 12.7 miles SE from Beeville	13. Date Drilling Commenced: N/A
16. Type Well (Oil, Gas, Dry): Disposal; Total Depth: 3500	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s: GAS ID or OIL LEASE #; Oil-O Gas-G; WELL #	14. Date Drilling Completed: N/A
18. If Gas, Amt. of Cond. on Hand at time of Plugging		15. Date Well Plugged: 3-26-99

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	3-25	3-26	3-26	3-26	3-26			
20. Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½	4½	4½			
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	3390	1350	750	256	13			
*22. Sacks of Cement Used (each plug)	16	13	12	12	2			
*23. Slurry Volume Pumped (cu. ft.)	17.92	14.56	13.44	13.44	2.36			
*24. Calculated Top of Plug (ft.)	3249	1238	647	103	3			
25. Measured Top of Plug (if tagged) (ft.)	-	-	-	-	-			
*26 Slurry Wt. #/Gal.	16.0	16.0	16.0	16.0	15.6			
*27. Type Cement	H	H	H	H	H			

RECORD CODIFICATION MAY 14 1999

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Return to Record Retention

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
9 5/8	36.0	206	203	12¼
5½	15.50	4900	4897	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4856	TO	4865	FROM	TO
FROM	4304	TO	4308	FROM	TO
FROM	3390	TO	3400	FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

[signature]
Signature of Cementer or Authorized Representative

Pat's P & A, Inc.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY	TITLE	DATE	Phone A/C	NUMBER
	Engineer	4/19/99	713	526-7417

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED R.R.C. OF TEXAS MAY 17 1999 O.G.-ENV. SERV. AUSTIN, TEXAS

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission	[X] Yes [ ] No	32. How was Mud Applied?	33. Mud Weight
		Circulated through workstring	10.2 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules?	[X] Yes [ ] No
3500	0	700		
Depth of Deepest Fresh Water 1300			36. If NO, Explain	

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
Pat's P & A, Inc., P.O. Box 0126, Bishop, TX 78343

Date RRC District Office notified of plugging
3-25-99

38. Name(s) and Address(es) of Surface Owners of Well Site

J. W. Bauer
P. O. Box 161
Refugio, Texas 78377

39. Was Notice Given Before Plugging to the Above?
yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:
[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Notified Dan Hill with RRC on setting plugs.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-2
Rev. 4/1/83
483-046

Type or print only

FIRST WELL ASSOC. FLD. 86759

API No. 42- 025 30094

7. RRC District No. 02

Oil Well Potential Test, Completion or Recompletion Report, and Log

8. RRC Lease No. 08360

1. FIELD NAME (as per RRC Records or Wildcat) MEDIO CREEK (3350)

2. LEASE NAME CHATO BAUER

9. Well No. 3-D

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) HAMMAN OIL AND REFINING COMPANY

RRC Operator No. 350200

10. County of well site BEE

4. ADDRESS P. O. BOX 13028, HOUSTON, TEXAS 77219

11. Purpose of filing
- [X] Initial Potential
- [ ] Retest
- [ ] Reclass
- [X] Well record only (explain in Remarks)

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5. If Operator has changed within last 60 days, name former operator

6a. Location (Section, Block, and Survey) GARRETT ROACHE SURVEY A-59

6b. Distance and direction to nearest town in this county 12 MILES SE FROM BEEVILLE

12. If workover or reclass, give former field (with reservoir) & gas ID or oil lease no.
FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil - O Gas - G | WELL NO.

13. Type of electric or other log run GR-N-CCL RECORD CODIFICATION

14. Completion or recompletion date 12/31/97

MAY 07 1998 VALID PERMIT

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15. Date of test	16. No. of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)			18. Choke size
19. Production during Test Period ▶	Oil - BBLS	Gas — MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure PSI
20. Calculated 24-Hour Rate ▶	Oil - BBLS	Gas — MCF	Water — BBLS	Oil Gravity—API—60°	Casing Pressure PSI

21. Was swab used during this test? Yes [ ] No [ ]

22. Oil produced prior to test (New & Reworked wells)

23. Injection Gas—Oil Ratio

RECEIVED R.R.C. OF TEXAS MAR 19 1998 OIL & GAS DIVISION SAN ANTONIO, TEXAS

REMARKS: Permitted as Ira Heard () lease #4. Amend SWD permit to reflect new lease name, well number & field name per Michael Marino 4-16-98.

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INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

Return Records Retention

WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature, Well Tester | Name of Company | RRC Representative

RECEIVED RRC OF TEXAS APR 15 1998 OG-ENV SRVS AUSTIN, TEXAS

OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

MICHAEL A. MARINO — ENGINEER
Typed or printed name of operator's representative — Title of Person

(713) 526-7417 — Date: 1 / 21 / 98 — Signature
Telephone: Area Code Number — Date: mo. day year

SECTION II — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

PRORATION AUTHORITY

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

25. Permit to Drill, Plug Back or Deepen — DATE 11-5-97 — PERMIT NO. 48633

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — 9/12/97 — PERMIT NO. 10945

Other — PERMIT NO.

26. Notice of Intention to Drill this well was filed in Name of

27. Number of producing wells on this lease in this field (reservoir) including this well: 0

28. Total number of acres in this lease: 220

29. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 12/23/97 — Completed 12/31/97

30. Distance to nearest well, Same Lease & Reservoir: N/A

31. Location of well, relative to nearest lease boundaries of lease on which this well is located: 2125' Feet From NW Line and 1000 Feet from SW Line of the CHATO BAUER Lease

32. Elevation (DF, RKB, RT, GR, ETC.): 148 GR (est)

33. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☑ No

34. Top of Pay	35. Total Depth	36. P. B. Depth	37. Surface Casing Determined by:
2000	3500	3500	Field Rules ☐ / Recommendation of T.D.W.R. ☐ / Railroad Commission (Special) ☐ — Dt. of Letter

38. Is well multiple completion?

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

40. Intervals Drilled by: Rotary Tools | Cable Tools

41. Name of Drilling Contractor

42. Is Cementing Affidavit Attached? ☑ Yes ☐ No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
9 5/8	32.2	206		125 SKS "H"	12 1/4	SURFACE	148
5 1/2	15.50 & 14.00	4900		617 SKS HLC	7 7/8	SURFACE	1601

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	3214	3214

46. ~~Producing~~ Interval (this completion) Indicate depth of perforation or open hole

From	3390	To	3400
From		To	
From		To	
From		To	

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
3390 - 3400	ACIDIZE W/ 500 gal 15% HCL + 500 gal 15 X 3 % MUD ACID

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
MIOCENE	1460		
FRIO	2850		
VICKSBURG	4860		

REMARKS: Re-entry, converted to SWD, H-5 Test

Form W-1
Rev. 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☒ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-30094 ▶ Permit No 469633 ▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): HAMMAN OIL AND REFINING COMPANY OK
3. RRC Operator No.: 350200
4. RRC District No.: 02
5. County of Well Site: BEE
2. Address (including city and zip code): P. O. BOX 13028, HOUSTON, TEXAS 77219
6. Lease Name (32 spaces maximum): CHATO BAUER
7. RRC Lease/ID No.:
8. Well No.: 3-D
9. Total Depth: 3500'

949398

10. Location
• Section ____ Block ____ Survey GARRETT ROACHE Abstract No. A- 59
• This well is to be located 12 miles in a SE direction from BEEVILLE, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 250 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 220 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
MEDIO CREEK (3350) 60198250	3360	467/1200	40	40	NO	N/A	SWD	1	0

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 2125' FNWL, 1000' FSWL
• Survey/Section 2125' FNWL, 10000 FNEW (Creek)

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒
24. Is item 17 less than item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☐ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes ☒ No ☐
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks
WELLBORE FORMERLY NAMED IRA HEARD NO. 4
WILL BE CONVERTED INTO A SWD WELL DISPOSAL
WELL PERMIT NO. 10945

I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: [signature] MICHAEL A. MARINO - ENGINEER
Name and title of operator's representative

Date: 10/28/97 mo. day yr. Tel.: (713) 526-7417 Area Code Number

125 App
202977 NOV 397

• RRC Use Only •

469633

025-30094

Scale: 1" = 1000'

Note: Location falls approximately 12.7 miles southeast of the City of Beeville, Bee County, Texas.

ALL INFORMATION ON THIS PLAT IS TRUE TO THE BEST OF MY BELIEF AND KNOWLEDGE

Michael A. Marino

MICHAEL A. MARINO

HAMMAN OIL & REFINING CO.
NO. 2 CHATO BAUER
220.00 ACRE LEASE
GARRETT ROACHE SURVEY A-59
BEE COUNTY, TEXAS

NOV 03 1997

State of Texas I
County of Bee I

I hereby certify that this plat accurately represents a survey made on the ground under my direction.

George E. Harris
Registered Professional Land Surveyor
No. 826

Date January 7, 1996

STATE OF TEXAS REGISTERED GEORGE E. HARRIS 826 PROFESSIONAL LAND SURVEYOR

HARRIS ENGINEERING

File: 97003

MIKE FOX
A-24

MEDIO CREEK

Theresa Mathers
409.763 Ac. Tract 9

Survey Line

A-59

GARRETT ROACHE

10,000'

J. W. Bauer
409.763 Ac. Tract 10

Property Line

Lease Line

HAMMAN OIL & REFINING CO.
No. 2 Chato Bauer

Survey & Lease Line

Lease Line

No. 1 Chato Bauer

No 3-D Chato Bauer

2125'

220.00 Ac. Lse.

1000'

40 Ac

Fnd Conc. Mon.

Lease Line

Fnd. 1" I. P.

Mrs. Laura D. Thompson

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

BP

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
4. RRC Lease Number: 56710
2. FIELD NAME (as per RRC Records): Medio Creek (4,300)
3. LEASE NAME: Ira Heard
5. Well Number: 4
6. OPERATOR: Fred W. Shield
10. County: Bee
7. ADDRESS: 1442 Milam Building, San Antonio, Texas 78205
11. Date Drilling Permit Issued: PB-8/24/73
8. SURFACE LOCATION: 2,125 FEET FROM West LINE, AND 10,000 FEET FROM North LINE
12. Date Drilling Commenced: PB-9-6-73
9. SECTION, BLOCK, AND SURVEY: Garrett Roache Survey, Abst. 59
13. Date Drilling Completed: PB-9-26-73
15. Type of Well (Oil, Gas, Dry)*: Gas
16. Type of Completion (Single, Dual, Etc.): Single
17. Total Depth: PB-4,310'
14. Date Well Plugged: July 25, 1978
18. FORM W-1 (Intention to Drill) Filed in Name of: Fred W. Shield
19. Manner of Placement

PLUG #1	40	SACKS	TOP 4,100'	BOTTOM	4,400'	TYPE	Class "A"
PLUG #2	17	SACKS	TOP 1,200'	BOTTOM	1,300'	TYPE	Class "A"
PLUG #3	10	SACKS	TOP 0	BOTTOM	10'	TYPE	Class "A"
PLUG #4		SACKS	TOP	BOTTOM		TYPE	

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]
21. How was Mud applied? Pump
22. Mud Weight: 8.9 LBS/GAL
23. Depth of Deepest Fresh Water: 1,300 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]
25. If NO, Explain:
26. Name and Address of Party Plugging Well: Texas Acidizers, Box 47, Seguin, Texas 78155
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
9-5/8" OD	206	0	206	0
5-1/2" OD	4,900	0	4,900	0
2-3/8" OD	4,767	0	NONE	

AUG 28 1978

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: Mrs. Georgia Heard, Box 27, Refugio, Texas 78377

RAILROAD COMMISSION OF TEXAS
AUG 15 1978
C. O.

29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ]

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Fred W. Shield — Operator — August 3, 1978
REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

025-30094

mach on file

30 For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS Well is located 1,475 feet from Southeast and 990 feet from Southwest line of 640-acre lease.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Medio Creek (4,300)	*2. RRC District 2
*3. Operator Fred W. Shield	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Ira Heard; Lease No. 56710	*6. Well Number 4
*7. Location (Section, Block, and Survey) Garrett Roache Survey, Abst. 59	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	7/25/78	7/25/78	7/25/78			
*20. Size of Hole or Pipe in which Plug Placed (inches)	5½ O.D.	5½ O.D.	5½			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4400	1300	80			
22. Sacks of Cement Used (each plug)	40	17	10			
23. Slurry Volume Pumped (cu. ft.)	47.20	20.06	11.8			
24. Calculated Top of Plug (ft.)	4100	1200	0			
*25. Measured Top of Plug (if tagged) (ft.)	-	-	3			

RECEIVED
R.R.C. OF TEXAS
AUG 15 1978
S.A., TEXAS

2-81 56710

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

R. Carpenter

Signature of Cementer or Authorized Representative

R.E. Carpenter--Cementer

Name of Person and Title (type or print)

Texas Acidizers

Cementing Company

Box 47

Street Address or P.O. Box

Seguin TX 78155

City, State Zip Code

Telephone 512 379-5131

Area Code

July 25, 1978

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

David W Shield

*Signature of Operator or Authorized Representative

Fred W. Shield, Owner

*Name of Person and Title (type or print)

Fred W. Shield

*Operator

1442 Milam Building

*Street Address or P.O. Box

San Antonio, Texas 78205

*City, State Zip Code

*Telephone 512 227-7169

Area Code

August 3, 1978

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface; or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

Form G-1
Rev. 7/5/66

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District: 2
8. RRC Identification Number: [illegible]

1. FIELD NAME (as per RRC Records or Wildcat): Medio Creek (4,300')
2. LEASE NAME: Ira Heard
9. Well Number: 4-C
3. OPERATOR: Fred W. Shield
10. County: Bee
4. ADDRESS: 1442 Milam Building, San Antonio, Texas 78205
11. Purpose of Test: Initial Potential [X] Retest [ ] Recless [ ]
5. If Operator has changed within last 60 Days — Give former Operator: --
6. LOCATION (Section, Block, and Survey): Garrett Roache Survey, A-59
12. Pipe Line Connection: Trunkline Gas Company
13. If Workover, give former Field (with Reservoir):
14. Completion Date: c.) 9-26-73
15. List of Offset Operators Notified and Date of Notification: None
16. Type of Electric or other Log Run:

Section I — GAS MEASUREMENT DATA

Date of Test: 10-1-73

Gas Measurement Method (Check One): Orifice Meter [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 130 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		16/64	1.475	824		83	.9786	1.00	1.058	1258
2		14/64	1.116	850		82	.9795	1.00	1.060	984
3		12/64	.804	876		81	.9804	1.00	1.063	933
4		10/64	.553	901		80	.9813	1.00	1.065	521

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-In Temp.	Bottom Hole Temp.
.60	None Deg. API	Dry Gas CF/Bbl	G_{mix} = .60	111 °F	147 °F @ 4306 (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\ }$ = $\sqrt{GL}$ = $\sqrt{\ }$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = $\frac{\sqrt{GL}}{C}$ = =

Run No.	Time of Run Min.	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			945	74					
1	60	16/64	824	83					
2	60	14/64	850	82					
3	60	12/64	876	81					
4	60	10/64	901	80					

Run No.	F	K	$S = \frac{1}{z}$	gks	P_f and P_s	P_f^2 and P_s^2	$P_f^2 - P_s^2$
Shut-In		.0848	1.115	1.099	1038	1077	
1		.0842	1.103	1.097	904	817	260
2		.0842	1.105	1.097	932	869	208
3		.0842	1.107	1.098	962	925	152
4		.0842	1.109	1.098	989	978	99

Angle of Slope
θ = 45
n = 1.0
Absolute Open Flow 5200 MCF/DAY

OPEN FLOW TEST:
Shut-In Press ..... Psig
Time Shut-In ..... Hrs.
Producing Through
In. H_2O ..... In. Hg. ..... Psig

Time	Reading	Time	Reading
15		25	
20		30	

RECEIVED R.R.C. OF TEXAS OCT 24 1973 U.S. SAN ANTONIO, TEXAS

E. R. Wallace
REPRESENTATIVE OF COMPANY MAKING TEST

RECEIVED R.R.C. OF TEXAS NOV 5 1973 U.S. AUSTIN, TEXAS

REPRESENTATIVE OF RAILROAD COMMISSION

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R.C.S. that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

District Superintendent — TITLE
10/4/73 — DATE

R. M. Sikes REPRESENTATIVE OF COMPANY

Need Dual P-4 of 6-5

W-1 ok

SECTION III	DATA ON WELL COMPLETION AND LOG (Not Required on Retest)	
17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐		18. Date Permit Issued: August 24, 1973
19. Notice of Intention to Drill this Well was filed in Name of: Fred W. Shield		20. If Special Permit, Give Permit Number: --
21. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: None	22. Total Number of Acres in this Lease: 640	
23. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced c.) 9-6-73	Completed 9-26-73	24. Distance to Nearest Well, Same Lease & Reservoir: None
25. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 990' Feet From SE Line of The	SW Line And Ira Heard	1,475 Feet From Lease
26. Elevation (DF, RKB, RT, GR, ETC): 148' GR (Est)	27. Was Directional Survey Made: Yes ☐ No ☒	
28. Top of Pay: 4,303	29. Total Depth: 4,900 GR	30. P.B. Depth: 4,310
31. Surface Casing Determined By: Recommendation of Texas Water Development Board ☒ Field Rules ☐ Railroad Commission (Special) ☐		
32. Is Well Multiple Completion? Yes ☒ No ☐	33. If Multiple Completion List All Reservoir Names: 4C-Frio (4,300')--4T-Medio Creek(4,850')	34. Intervals Drilled By: Rotary Tools 4,900 Cable Tools
35. Name of Drilling Contractor: Ballard Well Service	36. Is Cementing Affidavit Attached? Yes ☐ No ☒	

37. CASING RECORD (Report All Strings Set in Well)

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
a.) 9-5/8" OD	32.2	206	12-1/4	125 sx type H	None
a.) 5-1/2" OD	15.5	4,900	7-7/8	617 sx Halco Light	None
a.) 5-1/2" OD	14.0	2,917	7-7/8	Circ to surface	None

38. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen
2-1/2"	4,830	4,892	Packer at 4,827	4866-4850

39. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8"	4,781'	4,386'

40. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From c.) 4,304'	To 4,308'	(Casing perf)
From T.) 4,856'	To 4,865'	(Perf)
From	To	
From	To	

41. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

42. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS a.) Denotes casing record when well was originally drilled and single completion made in Medio Creek (4,850') field on 4-5-71.
T.) Tubing completion.
c.) Casing completion.

2(12) 56710

FORM W-1
(Rev. 12-16-68)

6

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

API Well No. 42

SP5

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: ☐ DRILL ☐ DEEPEN ☒ PLUG BACK ☐ OTHER (Specify)

7. RRC District: 2
8. County: Bee
9. Well Number: 4-C
10. Number of Acres in Lease: 640
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 990' fr SWL

1. Operator: Fred W. Shield
2. Address (Including City and Zip Code): 1442 Milam Building, San Antonio, Texas 78205
3. Is Form 7 in Exact Operator Name Filed? YES ☒ NO ☐
4. Lease Name: Ira Heard
5. Location (Sec., Blk., Survey): Garrett Roache Survey, A-59
6. This well is to be located 12 miles SE
Direction from Beeville
Nearest Post Office or Town.

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or spoiled for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Medio Creek (4,300' [redacted]	4308	NA	37	38	40	No	NA	Yes	Gas	None	None

RECEIVED R.R.C. OF TEXAS AUG 23 1973 O.G. SAN ANTONIO, TEXAS

RECEIVED R.R.C. OF TEXAS O.G. SAN ANTONIO, TEXAS

467-1200 40 ac

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect oil fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS: Perforate 4300' sand at 4305' - 08' through casing and if commercial production dually complete-- lower zone Medio Creek 4,850' now producing through tubing.

AUG 31 1973

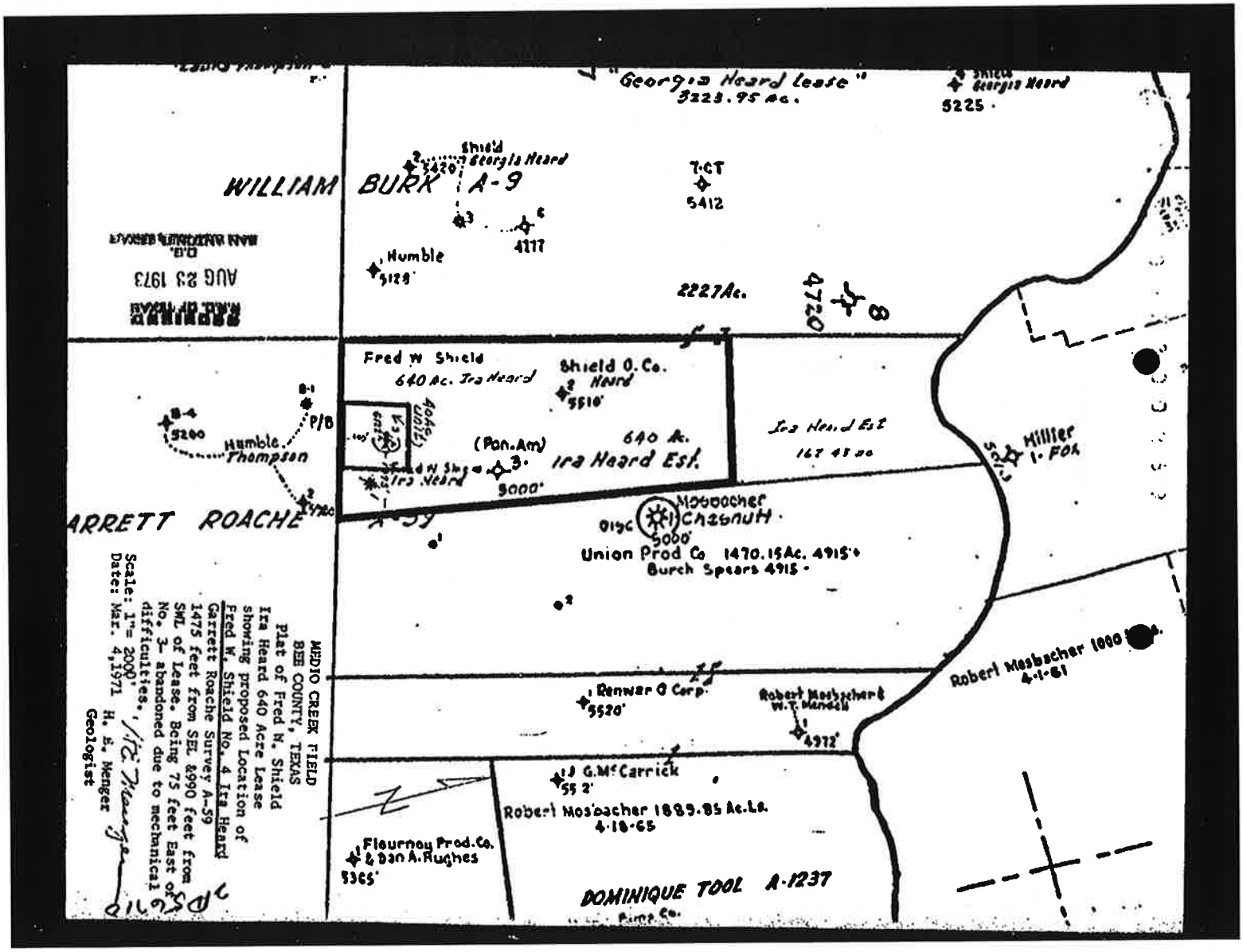
Fred W. Shield
Signature

Operator
Title

August 23, 1973
Date

Telephone: Area Code 512 227-7169

- OVER -


"Georgia Heard Lease"
3223.95 Ac.
Shield Georgia Heard
5225
WILLIAM BURK A-9
Shield Georgia Heard
5420
7-CT
5412
4177
Humble
5128
2227Ac.
4720
Fred W Shield
640 Ac. Ira Heard
Shield O. Co.
Heard
5510
640 Ac.
Ira Heard Est.
(Pan. Am)
3
5000
Ira Heard Est
167.43 ac
Hillier
1-FOX
Humble
Thompson
P/B
5200
ARRETT ROACHE
Mosbacher
Chesnutt
5000
Union Prod Co 1470.15Ac. 4915
Burch Spears 4915
Robert Mosbacher 1000
4-1-61
Renwar O Corp.
5520
Robert Mosbacher & W.T. Mendell
4972
G.McCarrick
Robert Mosbacher 1889.85 Ac.Ls.
4-18-65
Flournoy Prod.Co. & Dan A. Hughes
5365
DOMINIQUE TOOL A-1237
MEDIO CREEK FIELD
BEE COUNTY, TEXAS
Plat of Fred W. Shield
Ira Heard 640 Acre Lease
showing proposed Location of
Fred W. Shield No. 4 Ira Heard
Garrett Roache Survey A-59
1475 feet from SEL &990 feet from
SWL of Lease. Being 75 feet East of
No. 3- abandoned due to mechanical
difficulties.
Scale: 1"= 2000'
Date: Mar. 4,1971
H. E. Menger
Geologist
AUG 23 1973

0 0 0 0 7 8 0 0 2 7 0

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form G-1
Rev. 7/5/66

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District: 2
8. RRC Identification Number: 56770
9. Well Number: 4
10. County: Bee
11. Purpose of Test: Initial Potential [ ] Retest [ ] Reclass [X]

1. FIELD NAME (as per RRC Records or Wildcat): Medio Creek (4,300')
2. LEASE NAME: Ira Heard
3. OPERATOR: Fred W. Shield
4. ADDRESS: 1442 Milam Building, San Antonio, Texas 78205
5. If Operator has changed within last 60 Days -- Give former Operator
6. LOCATION (Section, Block, and Survey): Garrett Roache Survey, A-59
12. Pipe Line Connection: Trunkline Gas Company
13. If Workover, give former Field (with Reservoir): See "Remarks"
14. Completion Date: 9-26-73
15. List of Offset Operators Notified and Date of Notification: None
16. Type of Electric or other Log Run

Section I — GAS MEASUREMENT DATA

Date of Test: 4-24-74

Gas Measurement Method (Check One): Orifice Meter [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 70 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		16/64	1.475	385		83	.9786	1.00	1.026	570
2		14/64	1.116	397		82	.9795	1.00	1.028	446
3		12/64	.804	406		81	.9804	1.00	1.029	329
4		10/64	.553	413		80	.9813	1.00	1.030	226

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-In Temp.	Bottom Hole Temp.
.60	None Deg. API	Dry Gas CF/Bbl	G_{mix} = .60	111 °F	147 °F @ 4306 (Depth)

$D_{eff}^{8/3}$ = | $\sqrt{T_f}$ = $\sqrt{\ }$ = | $\sqrt{GL}$ = $\sqrt{\ }$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = | $\frac{\sqrt{GL}}{C}$ = _____ = _____

Run No.	Time of Run Min.	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			435	74					
1	60	16/64	385	83					
2	60	14/64	397	82					
3	60	12/64	406	81					
4	60	10/64	413	80					

Run No.	F	K	$S = \frac{1}{z}$	gks	P_f and P_s	P_f^2 and P_s^2	$P_f^2 - P_s^2$
Shut-In		.0848	1.053	1.0935	476	227	
1		.0842	1.046	1.0920	420	176	51
2		.0842	1.048	1.0922	434	188	39
3		.0842	1.050	1.0924	444	197	30
4		.0842	1.051	1.0925	451	203	24

Angle of Slope: θ = 45, n = 1.0

Absolute Open Flow: 2500 MCF/DAY

OPEN FLOW TEST:

Shut-In Press ..... Psig
Time Shut-In .....
Producing Through
In. H_2O ..... In. Hg. ..... Psig

Time	Reading	Time	Reading
15		25	
30		30	

RECEIVED R.R.C. OF TEXAS MAY 01 1974 O.G. SAN ANTONIO, TEXAS

E P Wallace
REPRESENTATIVE OF COMPANY MAKING TEST

BR Hall
REPRESENTATIVE OF RAILROAD COMMISSION

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Fred W. Shield
REPRESENTATIVE OF COMPANY

Operator
TITLE

4-29-74
DATE

OK EF 1-6-74

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

18. Date Permit Issued

19. Notice of Intention to Drill this Well was filed in Name of

20. If Special Permit, Give Permit Number

21. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well

22. Total Number of Acres in this Lease

23. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced | Completed

24. Distance to Nearest Well, Same Lease & Reservoir

25. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: Feet From Line of The Line And Feet From Lease

26. Elevation (DF, RKB, RT, GR, ETC)

27. Was Directional Survey Made: Yes ☐ No ☐

28. Top of Pay | 29. Total Depth | 30. P.B. Depth | 31. Surface Casing Determined By: Recommendation of Texas Water Development Board ☐ Field Rules ☐ Railroad Commission (Special) ☐

32. Is Well Multiple Completion? Yes ☐ No ☐

33. If Multiple Completion List All Reservoir Names

34. Intervals Drilled By: Rotary Tools | Cable Tools

35. Name of Drilling Contractor

36. Is Cementing Affidavit Attached? Yes ☐ No ☐

37. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled

38. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

39. **TUBING RECORD**

Size	Depth Set	Packer Set

40. Producing Interval (this completion) indicate Depth of Perforations or Open Hole

From	To
From	To
From	To
From	To

41. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used

42. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth

REMARKS This well was assigned RRC Identification No. 56710 when originally completed. Originally Completed as Dual-oil + Gas. The oil zone at 4850 was plugged with CIBP at 4850. This G-1 filed for allowable for 4300' Gas zone as advised by Mr. Bouldin.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 7/1/69

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1 Field Name (as per RRC Records or Wildcat) Medio Creek (4,350')	2 Lease Name Ira Heard
3 Operator Fred W. Shield	7 RRC District 2
4 Address 1442 Milam Building, San Antonio, Texas 78205	8 RRC Lease Number 04527
5 If Operator has changed within last 60 Days — Give former Operator	9 Well Number 4
6 Location (Section, Block, and Survey) Garrett Roache Survey, A-59	10 County Bee
12 If Workover — Give former Field with Reservoir	11 Purpose of Test: Initial Potential X; Retest ☐; Reclass ☐
13 Type of Electric or other Log run I E L & Neutron	14 Completion Date 4-5-71

Section I — POTENTIAL TEST DATA

15 Date of Test	16 No. of Hours Tested	17 Production Method (Flowing, Gas Lift, Jetting, Pumping — Size & Type of Pump)	18 Choke Size
4-14-71	24	Flowing	15/64

	Oil – BBLS	Gas – MCF	Water – BBLS	Gas – Oil Ratio	Flowing Tubing Pressure
19 Production for Test Period 211	35	26	176	740/1	720 PSI
20 Calculated 24 Hour Rate 211	35	26	176	Oil Gravity – API – 60° 27°	Casing Pressure Packer PSI

21 Was Swab or Artificial Flowing Device Used During this Test? Yes ☐ No X
22 Oil Produced Prior to Test (New & Reworked Wells) 30
23 Injection Gas–Oil Ratio

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.
We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, and/or which production was run during duration of this test.

Signature: REPRESENTATIVE OF COMPANY MAKING TEST — Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified: NONE — Date of Notification:

CERTIFICATE.
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Fred W. Shield — REPRESENTATIVE OF COMPANY
Operator — TITLE
4/16/71 — DATE

RECEIVED
R. R. C. OF TEXAS
APR 16 1971
SAN ANTONIO, TEXAS

REMARKS

025-30094

Form 10K
11-11-71 Fill W. Shield @ 35# CAP

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well [X] Deepening [ ] Plug-Back [ ] Other [ ]

25. Date Permit Issued: March 8, 1971

26. Notice of Intention to Drill this Well was filed in Name of: Fred W. Shield

27. If Special Permit, Give Permit Number:

28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

29. Total Number of Acres in this Lease: 640

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 3/20/71; Completed 3/24/71

31. Distance to Nearest Well, Same Lease & Reservoir: None

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 990 Feet From SE Line of The Ira Heard Lease And 1,475 Feet From SW Line

33. Elevation (DF, RKB, RT, GR, ETC): 148 GR (Est.)

34. Was Directional Survey Made: Yes [ ] No [ ] Form W-12 attached [X]

35. Top of Pay: 4,856

36. Total Depth: 4,900 GR

37. P.B. Depth:

38. Surface Casing Determined By: Recommendation of Texas Water Development Board [X] Field Rules [ ] Railroad Commission (Special) [X]

39. Is Well Multiple Completion? Yes [ ] No [X]

40. If Multiple Completion List All Reservoir Names (Completions in this Well):

41. Intervals Drilled By: Rotary Tools 0-4,900; Cable Tools:

42. Name of Drilling Contractor: Billings Oil Service, Inc.

43. Is Cementing Affidavit Attached? Yes [X] 2 No [ ]

44. CASING RECORD (Report All Strings Set in Well)

Casing Size	Weight LB FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
9-5/8" OD	32.2	206'	12-1/4"	125 sx Type H	None
5-1/2" OD	15.5	4,900'	7-7/8"	617 sx Halco Light	None
5-1/2" OD	14.0	2,917'	7-7/8"	Circ to surface	None

45. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen
2-1/2"	4830	4892	Packer @ 4,827	4866-4850

46. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8" EUE	4,781	4,781

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From	To
4,856	4,865

48. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

49. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Sand and shale	0-222	Sand and shale	4187-4580
Clay and sand	222-1433	Hard sand	4580-4912
Sand, shale, clay	1433-2382		
Clay, sand, shale	2382-3483		
Shale	3483-3749		
Sand and shale	3749-4187		

REMARKS: Two packers set: 1 @ 4,827' on top of liner and second packer on tubing bottomed at 4,781'

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev 11-1-69)

CEMENTING REPORT

*1. Field (Name and No.)	Dodie Creek (4,350')
*2. County	Bee
*3. Operator	Fred W. Shield
*4. Lease Name and RRC Lease Number(s) if P-1 Number(s)	Ira Pearl 04527
*5. Well Number	4
*6. Location (Section, Block, and Survey)	Ernest Roache Survey, A-59

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
7. Cementing Date	3-20-71					
*8. (a) Size of Drill Bit (inches)	12-1/4"					
(b) Percent of Cement Volume Enhancement Used in Calculations	100 %					
*9. Size of Casing (inches O.D.)	9-5/8"					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	218'					
13. Type and Amount of Additives Used in Each Slurry (Including Lost Circulation Materials) (a) In First (Lead) or Only Slurry	Type H					
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used (a) In First (Lead) or Only Slurry	125					
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used	125					
15. Slurry Volume per Sack of Cement (cu.ft.) (a) In First (Lead) or Only Slurry	1.18					
(b) In Second Slurry						
(c) In Third Slurry						
16. Slurry Volume Pumped (cu.ft.) (a) In First (Lead) or Only Slurry	147.5					
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	147.5					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	470'					
18. Was cement circulated to ground surface or bottom of cellar, outside casing? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. C. OF TEXAS
APR 16 1971

CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

SAN ANTONIO, TEXAS

* Items designated with an asterisk to be completed by Operator. Items not so designated shall be completed by the Cementing Company.

CE540-2

26. Remarks: Ticket # 253478 Surface 9-5/8" Refugio County 218 ft. Ira Heard # 4 3-23-71	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6045e, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Fred Kowalik
Signature of Cementer or Authorized Representative

Fred Kowalik - Cementer
Name of Person and Title (type or print)

Halliburton Services
Cementing Company

2019 Houston Highway
Street Address or P. O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 575 1443
Area Code

March 20, 1971
Date

***OPERATOR**

I declare under penalties prescribed in Article 6045e, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Fred W. Shield
*Signature of Operator or Authorized Representative

Fred W. Shield, Owner
*Name of Person and Title (type or print)

Fred W. Shield
*Operator

1442 Wilson Building
*Street Address or P. O. Box

San Antonio, Texas 78205
*City, State *Zip Code

*Telephone 512 227 - 7169
Area Code

March 30, 1971
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules.
   (2) Each copy of Form W-3.
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule.
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.)
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above).
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing. (Statewide Rules, Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev 11-1-60)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Medio Creek (4,850')
*2. RRC District: 2
*3. Operator: Fred W. Shield
*4. County: Bee
*5. Lease Name and RRC Lease Number(s) or I. D. Number(s): Ira Heard 04527
*6. Well Number: 4
*7. Location (Section, Block, and Survey): Garrett Roache Survey, A-59

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date			3-24-71			
*9. (a) Size of Drill Bit (inches)			7-7/8"			
(b) Perforations, Open Hole, or Slotted Liner Data (in inches)						
*10. Size of Casing (inches O.D.)			5-1/2"			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)			4,900'			
13. Type API Cement Used; Amount of Additives Used: (a) In First (Lead) or Only Slurry (Use additional space if needed, see Item 27 on reverse side)			Halliburton Light Cement 10% Gel			
(b) In Second Slurry			Halliburton Light Cement 15% Salt - .5% CFR-2			
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry			432			
(b) In Second Slurry			185			
(c) In Third Slurry						
(d) Total Sacks of Cement Used			617			
15. Slurry Volume (cu. ft.) Pumped: (a) In First (Lead) or Only Slurry			3.00	OK		
(b) In Second Slurry			1.70			
(c) In Third Slurry						
16. Top of Cement (Calculated) (from 14 a (from 15): (a) In First (Lead) or Only Slurry			1296			
(b) In Second Slurry			305			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu. ft.)			1601			
17. Calculated Minimum Height of Cement Slurry Behind Pipe (ft.)			9232'			
18. Was Cement Circulated to Ground Surface (or bottom of cellar outside casing)? (Yes or No)			Yes			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. C. OF TEXAS
APR 16 1971
CORPUS CHRISTI, TEXAS

CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Items marked with an asterisk are to be completed by operator. Items not so designated shall be completed by cementing company.

C-590-2

26. Remarks: Ticket# 226709
Fred W. Shields
Production Job
Ira Heard #4
3-24-71
Bee County, Texas

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6033c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

R. E. Smith
Signature of Cementer or Authorized Representative

R. E. Smith - Cementer
Name of Person and Title (type or print)

Halliburton Services
Cementing Company

2019 Houston Highway
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 575 1443
Area Code

3-25-71
Date

***OPERATOR**

I declare under penalties prescribed in Article 6033c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Fred W. Shield
*Signature of Operator or Authorized Representative

Fred W. Shield, Owner
*Name of Person and Title (type or print)

Fred W. Shield
*Operator

1442 Milam Building
*Street Address or P.O. Box

San Antonio, Texas 78205
*City, State Zip Code

*Telephone 512 227 - 7169
Area Code

March 30, 1971
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3,
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
2-1-71

INCLINATION REPORT

(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Medio Creek (4,850')	2. LEASE NAME: Ira Heard
3. OPERATOR: Fred W. Shield	
4. ADDRESS: 1442 Milam Bldg., San Antonio, Texas	
5. LOCATION (Section, Block, and Survey): Garrett Roache Survey, A-59	
6. RRC District: 2	
7. RRC Lease Number (Oil completions only): 04527	
8. Well Number: 4	
9. RRC Identification Number (Gas completions only):	
10. County: Bee	

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
222	2.22	1/4	.44	.98	.98
1200	9.78	1/2	.87	8.51	9.49
2200	10.00	3/4	1.31	13.10	22.59
3200	10.00	1	1.75	17.50	40.05
3749	5.49	3/4	1.31	7.19	47.28
4700	9.51	1/2	.87	8.27	55.55
4900	2.00	3/4	1.31	2.62	58.17

If [illegible] space is needed, use the reverse side of this form.

17. [illegible] information shown on the reverse side of this form? ☐ yes XX no

18. Accumulative total displacement of well bore at total depth of 4900 feet = 58.17 feet.

*19. Inclination measurements were made in — ☐ Tubing ☐ Casing XX Open hole ☐ Drill Pipe

20. Distance from surface location of well to the nearest lease line ~~660~~ 990 feet.

21. Minimum distance to lease line as prescribed by field rules No field rules ~~660~~ feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If [illegible] to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have personal knowledge of the information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Travis E. Teeter
Signature of Authorized Representative
Travis E. Teeter, Toolpusher
Name of Person and Title (type or print)
Billings Oil Service, Inc.
Name of Company
Telephone: 512 883-3531
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Fred W. Shield
Signature of Authorized Representative
Fred W. Shield, Owner
Name of Person and Title (type or print)
Fred W. Shield
Operator
Telephone: 512 227 - 7169
Area Code

RECEIVED
R. R. C. OF TEXAS
APR 16 1971
SAN ANTONIO, TEXAS

Railroad Commission Use Only:

Approved By: [signature] Title: [illegible] Date: 4-16-71

* Designates items certified by company that conducted the inclination survey.

2.04527

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

BYRON TUNNELL, Commissioner
JIM C. LANGDON, Commissioner
BEN RAMSEY, Commissioner

ARTHUR H. BARBECK
Chief Engineer
JAMES C. BOULDIN
Director of Production
and Proration

[illegible] INFORMATION BUILDING • CAPITOL STATION - P. O. DRAWER 12967 • AUSTIN, TEXAS 78711

March 10, 1971

Fred W. Shield
Milam Building
San Antonio, Texas 78205

RE: Ira Heard Lease, Well No. 4, Medio Creek /4850/ Field, Bee County, Texas

Gentlemen:

This will acknowledge receipt of your letter dated March 4, 1971 concerning the above captioned well.

Authority is hereby granted to set approximately 200 feet of surface casing and to use a multi-stage tool at a depth not shallower than 1300 feet for the purpose of introducing sufficient cement behind the production casing to reach the surface of the ground. In the event the well is a dry hole and no production string is set, it will be necessary that sufficient cement plugs be set in the well bore to protect all fresh water sands. Cement plugs are to be placed in the well bore promptly after the Commission authorizes plugging of the well and before the drilling rig is dismantled or moved.

*or cement production casing from the shoe to ground surface.

Compliance with the other provisions of Statewide Rule 13(A), and a Cementing Report Form W-15, must be filed with each appropriate completion form showing all pertinent well information and data regarding cementing operations performed during the drilling, completion, or plugging of the well. (See instructions on Form W-15)

If cement is not circulated to ground surface while cementing through the multi-stage tool, you must submit a temperature survey indicating the top of cement to be above the surface casing or at least one third the distance from the surface casing shoe to ground surface.

This exception does not apply and is valid if parallel (non-concentric) strings of pipe are cemented in the hole for any reason unless all fresh water strata are protected by casing cemented in place before the parallel strings are cemented in the hole.

It is requested that the Railroad Commission District Office shown below be notified approximately 12 hours prior to the time casing is cemented in this well. If it is necessary to give this notification at a time when the District Office is closed, please contact a member of the Commission's district staff at one of the telephone numbers listed under "Night Telephone Numbers."

DISTRICT OFFICE	TELEPHONE NO.
San Antonio	512-226-1371
Night Telephone Nos.	" 655-0790
	" 736-3553
	" 344-7597

Yours very truly,

Arthur H. Barbeck
Chief Engineer

By: B. D. McAlexandre
B. D. McAlexandre

BDM:ss
cc: RRC-San Antonio, Texas

(C340-T)

FRED W. SHIELD
[illegible] BUILDING
SAN ANTONIO, TEXAS 78205

Date: March 4, 1971

Texas Water Development Board
P. O. Box 12386
Austin, Texas 78711

Gentlemen:

Please advise us the depth to which fresh water strata should be protected at the following location:

Lease Name: Ira Heard Well No. 4

Section No. _____ Block No. _____ TWP _____ Abstract No. 59

Survey Name Gervasio Rosche

Distance and direction from two adjacent section or survey lines 2,193' fr W line and 10,000' fr N line County Bee

Distance and direction from nearest town: 12 mi SW of Beeville
(Preferably a town in the same county as the well)

Elevation (sea level datum, if available): 341' (Gr.)

Proposed depth of well: 5,000'

Additional data enclosed:
1. Log of same or nearby well **
2. Plat showing well site and adjacent sections or surveys X

Yours very truly,

Fred W. Shield
Name
Fred W. Shield
Company
1462 Milam Building
Mailing Address
San Antonio, Texas 78205
City and State

** See log furnished with request on Ira Heard #3 well filed January 23, 1969

LT-690-2

2-04527

FORM W-1
(Rev. 12-16-69)

11

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

A BLE
API NO. DIST. 2
42 025 30094

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1. Operator: Fred J. Shield
2. Address (Including City and Zip Code): 1442 Milam Building, San Antonio, Texas 78205
3. Is Form 7 in Exact Operator Name Filed? YES [X] NO [ ]
4. Lease Name: Tra Heard
5. Location (Sec., Blk., Survey): Garrett Roache Survey, A-59
6. This well is to be located 12 miles SE Direction from Beeville Nearest Post Office or Town
7. RRC District: 2
8. County: Bee
9. Well Number: 4
10. Number of Acres in Lease: 640
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 990' fr SWL

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern (Acres. If no special rules indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Medio Creek /4850/	4,550	04527	37	38	40	NO	NONE	YES	Oil	NONE	NONE

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS: This well to be drilled to replace well [illegible] which was P & A on 2/27/71 due to mechanical difficulties

CERTIFICATE

I declare under penalties prescribed in Article 6030, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: [signature]

Title: Operator

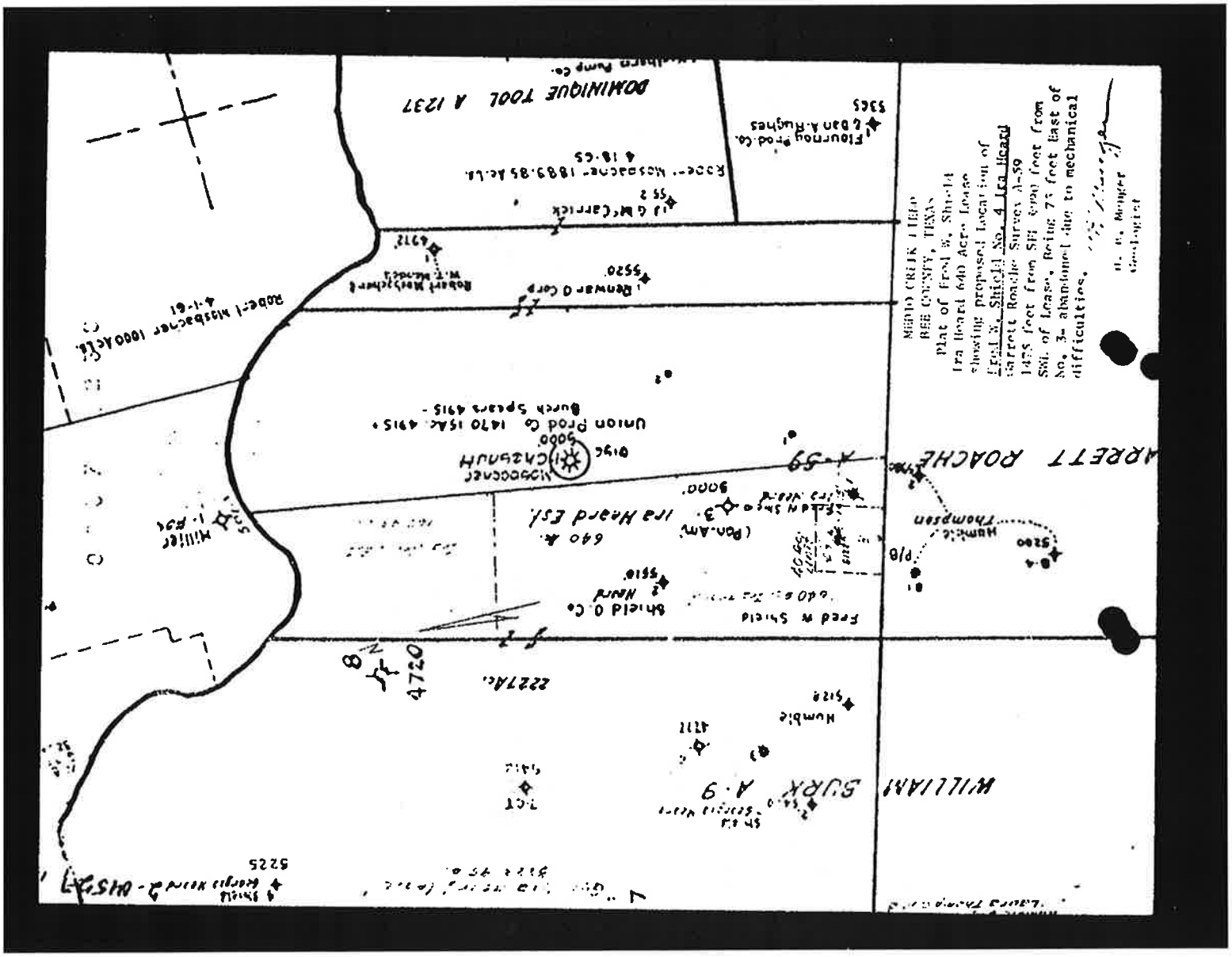
Date: March 4, 1971

Telephone: Area Code 512 227-7169

-OVER-

085-30094

[illegible]


MEDIO CREEK FIELD
BEE COUNTY, TEXAS
Plat of Fred W. Shield
Ira Heard 640 Acre Lease
showing proposed location of
Fred W. Shield No. 4 Ira Heard
Carrett Roache Survey A-59
1475 feet from SEL &990 feet from
SWL of Lease, Being 75 feet East of
No. 3- abandoned due to mechanical
difficulties.
H. R. Mengler
Consultant
CARRETT ROACHE A-59
WILLIAM SURK A-9
DOMINIQUE TOOL A 1237
Fred W. Shield
Ira Heard Est.
640 A.
Shield O. Co
Union Prod Co 1470 ISAC 4915
Burch Spears 4915
Renwar O Corp
Robert Mayfarker
Flournoy Prod. Co.
Dan A. Hughes
J. G. McCarrick
Humble
Miller
Thompson
4720
22274c.
9000'
5000'
5520'
4712'
5525
5325
5280
4711
5128
5510'

MAP ID #29

API# 42-025-01541
GAS WELL
PLUGGED

0038 0755

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
2. RRC Lease or Id. Number: 30422
3. WELL NAME (as per RRC Records): Heard Ranch (3500')
4. LEASE NAME: Ira Heard
5. Well Number: 1
6. OPERATOR: Fred W. Shield
7. ADDRESS: 1442 Milam Building
8. SURFACE LOCATION: 2,930 FEET FROM NL LINE, AND 11,850 FEET FROM WL LINE
9. SECTION, BLOCK, AND SURVEY: of Garrett Roache A-59 and Medio Creek
10. County: Bee
11. Date Drilling Permit Issued: 1-27-42
12. Date Drilling Commenced: 1-29-42
13. Date Drilling Completed: 2-25-42
14. Date Well Plugged: 1-28-72
15. Type of Well (Oil, Gas, Dry)*: Gas
16. Type of Completion (Single, Dual, Etc.): Single
17. Total Depth: 5,320
18. FORM W-1 (Intention to Drill) Filed in Name of: Fred W. Shield
19. Manner of Placement

PLUG #1	15	SACKS	TOP	2,826	BOTTOM	2,926	TYPE Class "A" API
PLUG #2	15	SACKS	TOP	0	BOTTOM	100	TYPE Class "A" API
PLUG #3		SACKS	TOP		BOTTOM		TYPE
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES ___ NO ___
21. How was Mud applied?
22. Mud Weight: LBS/GAL
23. Depth of Deepest Fresh Water: FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES XX NO ___
25. If NO, Explain
26. Name and Address of Party Plugging Well: Texas Acidizers, P. O. Box 47, Pemuin, Texas 79135
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
10-3/4" 32.75#	673	10	673	10
5-1/2" 15.5#	5,119	0	5,119	0
2-3/8" 4.7#	3,492	0	0	0

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: Mrs. Georgia Heard, Refugio, Texas

RECEIVED R.R.C. OF TEXAS FEB 24 1972 O.G. SAN ANTONIO, TEXAS

29. Was Notice given before Plugging to each of the above and RRC District Office? YES X NO

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

Fred W. Shield — Operator — 2-24-72

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☒ Acoustical/Sonic

REMARKS _____

0230 3756

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Heard Ranch (3,500')	*2. RRC District: 2
*3. Operator: Fred W. Shield	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Ira Heard 30422	*6. Well Number: 1
*7. Location (Section, Block, and Survey): Garrett Roach Survey, A-59	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

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FEB 24 1972
SAN ANTONIO, TEXAS

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	1/28/72	1/28/72				
*20. Size of Hole or Pipe in which Plug Placed (inches)	5½" O.D.	5½" O.D.				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2926	100				
22. Sacks of Cement Used (each plug)	15	15				
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)	2826	0				
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:	*27. Remarks:
	0

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification; that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision; and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

T Carpenter

Signature of Cementer or Authorized Representative

R. E. Carpenter - Cementer

Name of Person and Title (type or print)

Texas Acidizers

Cementing Company

P. O. Box 1199

Street Address or P.O. Box

Beeville, Texas 78102

City, State Zip Code

Telephone 512 358-1595

Area Code

January 28th, 1972

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification; that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Fred W. Shield

*Signature of Operator or Authorized Representative

Fred W. Shield, Operator

*Name of Person and Title (type or print)

Fred W. Shield

*Operator

1442 Milam Building

*Street Address or P.O. Box

San Antonio, Texas 78205

*City, State Zip Code

*Telephone 512 227 - 7169

Area Code

February 4, 1972

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement upon surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

0030 0753

RRC District 2

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form SW-1
(Amended 1-13-58)

PRODUCER'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE

FIELD Heard Ranch (3500) SURVEY G. Roache A-59 COUNTY Bee

OPERATOR Fred W. Shield LEASE (No. 30422) Ira Heard
LEASE NAME

RESERVOIR (For Gas Wells) 3,500' WELL NO. (For Gas Wells) 1

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Fred W. Shield

STREET 1442 Milam Building CITY San Antonio STATE Texas 78205

The above named operator hereby authorizes Trunkline Gas Company whose principal place of business

is Box 1642 (Street) Houston, (City) Texas (State) and whose field address is Same

to transport 100 % of the [ ] CASINGHEAD GAS [ ] GAS WELL GAS produced from the lease designated above until further notice. Other gatherers transporting [ ] CASINGHEAD GAS [ ] GAS WELL GAS from this lease are:

None % (Name of Gatherer) % (Name of Gatherer)

The undersigned certifies that the above agent is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property in accordance with the regulations of the Railroad Commission of Texas, and that this authorization will be valid until further notice or until cancelled by the Railroad Commission of Texas, and the undersigned further certifies that the conservation laws of the State of Texas and all rules, regulations, and orders of the Railroad Commission of Texas have been complied with in respect to the property covered by this report.

EXECUTED THIS THE 31st DAY OF January, 1968.

Fred W. Shield
(Affiant)

STATE OF TEXAS,)
COUNTY OF ____)

Before me, the undersigned authority, on this day personally appeared ____ known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

SUBSCRIBED and sworn to before me this the ____ day of ____, 19__.

(Seal) ____ Notary Public in and for ____ County, Texas

Registered in office of Railroad Commission of Texas at Austin, this ____ day of FEB 0 1968, 19__.

RAILROAD COMMISSION OF TEXAS

By ____ Agent

INSTRUCTIONS: Separate authorization is required for each person transporting oil or gas from the lease, and in the event of a split connection show in authorization what portion of the oil or gas each person is authorized to transport. Each and every producer of crude oil and natural gas in the State of Texas shall execute under oath a report on Form SW-1 authorizing a gatherer (whether himself or some one else) to transport the oil or gas from the properties of such producer and shall file said report in the office of the Railroad Commission of Texas in the District in which such properties are located in FOUR DUPLICATE ORIGINALS. After the Railroad Commission agent in charge has registered such report and placed thereon the Commission's SW-1 Serial Number, two copies of such report shall be returned to the producer making the report or his duly authorized agent, one of such copies so returned to be delivered by the producer to the gatherer authorized to transport oil or gas. Each producer shall file a separate report for each lease and for each gatherer transporting oil or gas from said lease. After the producer has filed with the Commission said report on Form SW-1, it shall bind said producer until cancelled by him, and it shall not be necessary for the producer after filing his first report on Form SW-1 to file with the Commission any subsequent authorization report on said Form until (a) operating ownership changes, (b) the lease is subdivided or consolidated in which event SW-1 must be accompanied by a revised lease plat showing the changes, (c) gatherer is to be changed, or (d) the certificate of compliance and authorization to transport oil or gas has been cancelled by the Commission. No oil or gas shall be moved from any lease until said report on Form SW-1 is completely executed, filed with, and registered by the Commission's agent. This Certificate and Authorization may be revoked by the Railroad Commission of Texas at any time for failure to comply with the oil and gas conservation laws of the State of Texas and the rules, regulations and orders of the Railroad Commission of Texas.

Form 1 Notice of Intention to Drill Filed in the Name of Spears, Burch, Inc. (Operator) Ira Heard (Lease)

INDICATE PURPOSE OF FILING

NEW LEASE: ____

CHANGE OF OPERATING NAME FROM: Pan American Petroleum Corporation

CHANGE OF LEASE NAME FROM: ____

CHANGE OF GATHERER FROM: ____

CONSOLIDATION/SUBDIVISION OF LEASE/S: ____

RAILROAD COMMISSION OF TEXAS
FEB 01 1968
O. G.
SAN ANTONIO, TEXAS

EFFECTIVE DATE: 7:00 A.M. January 1, 1968
(Required on all except new lease)

REMARKS: ____

If an SW-1 Form has been executed on this lease previously, show in the space below the serial number then assigned to it by the Commission:
COMMISSION'S SERIAL NUMBER SW-1. 233455

*Strike out inapplicable terms.

MAP ID #30

API# 42-025-31982
GAS WELL
PLUGGED

Plugging Record

P

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42 (if available) 025 31982

1. RRC District: 2

4. RRC Lease or Id. Number: 105864

5. Well Number: #1

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. FIELD NAME (as per RRC Records): MEDIO CREEK (VICKSBURG F-1)	1. Lease Name: Samuel Denver Chesnutt 'B'	10. County: BEE
6. OPERATOR: Exxon Company U.S.A.	6a. Original Form W-1 Filed in Name of: EXXON CORPORATION	11. Date Drilling Permit Issued: 2-28-83
7. ADDRESS: Wilson Tower, Corpus Christi, Texas 78475	6b. Any Subsequent W-1's Filed in Name of: EXXON CORPORATION	12. Permit Number: 187355
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 1126 Feet From SOUTH Line and 1236 Feet From WEST Line of the SAMUEL DENVER CHESNUTT 'B'		13. Date Drilling Commenced: 3-9-83
9. SECTION, BLOCK, AND SURVEY: GARRETT ROACHE (A-59)	9b. Distance and Direction From Nearest Town in this County: 10.1 mi NE of SKIDMORE	14. Date Drilling Completed: 3-15-83
Type Well: Total Depth: 5236	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s: GAS ID or OIL LEASE #, Oil-D Gas-G, WELL #	15. Date Well Plugged: 11-28-84
18. If Gas, Amt. of Cond. on Hand at time of Plugging		

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date: November 1984	28th	28th						
*20. Size of Hole or Pipe in which Plug Placed (inches)	7	7		TO BE WATER				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	*3640'	1520'						
*22. Sacks of Cement Used (each plug)		75		WELL SEE				
*23. Slurry Volume Pumped (cu. ft.)		8.5						
*24. Calculated Top of Plug (ft.)	3620'	1355'		ATTACHED P-13				
*25. Measured Top of Plug (if tagged) (ft.)		1331'						
*26. Slurry Wt. (lb/gal.)	15.6	15.6						
*27. Type Cement: Class	"H"	"H"						

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
10 3/4	40.5	1468	1468	14 3/4
7	23	5136	5136	9 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: Yes [X] No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	3660	TO	3665	FROM	5005	TO	5011
FROM	3652	TO	3656	FROM	5045	TO	5048
FROM	3684	TO	3688	FROM		TO	
FROM	4844	TO	4847	FROM	5136	TO	5397 OPEN HOLE
FROM	4988	TO	4991	FROM		TO	

Return to Central Records

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

*To signate items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Lorraine B. Stevenson
Signature of Cementer or Authorized Representative

Spartan Well Service, Inc.
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Helen Casner
REPRESENTATIVE OF COMPANY
HELEN CASNER

PROCESSION SPECIALIST — TITLE
FEB 04 1985 — DATE
Phone 512/387-2228 — A/C NUMBER

SIGNATURE REPRESENTATIVE OF RAILROAD COMMISSION

Plugs approved by Mr. Eugene Alvey, R. R. C., San Antonio District - 2

RECEIVED
DEC - 5 1984
R & R ACCOUNTING
EXXON CORP.

025-31982

MAPPING

31. Was Well Filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — [X] Yes [ ] No

32. How was Mud Applied? PUMPED THRU TUBING

33. Mud Weight 9.5 LBS/GAL

34. Total Depth 5397

Other Fresh Water Zones by T.D.W.R. — TOP / BOTTOM

Depth of Deepest Fresh Water 1300

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: Spartan Well Service, Inc., P. O. Box 1496, Corpus Christi, Texas 78403

Date RRC District Office notified of plugging: 1-28-84

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

JOHN ROOS 1022 SEALANE CORPUS CHRISTI TEXAS 78412

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to ... Date ...

Type Log: [ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date Form W-4 (Special Clearance) Filed?

Amount of Oil produced prior to Plugging ... bbls

42. If Form P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field ...

REMARKS

CASING RECOVERED: None
TUBING RECOVERED: 116 joints of 2 7/8"
* C.I.B.P. Set with 20' of cement on top of plug
Well was left for a water well

Form G-1
Rev. 6/1/80

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

NEW FIELD

API No. if Available 42-035-31982

7. RRC District: 2

60198 100

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

8. RRC Identification Number: 105864

9. Well Number: 1

10. County: BEE

11. Purpose of Test: Initial Potential XX; Retest ☐; Reclass ☐

12. If Workover or Reclass, give former Field (with Reservoir) & Gas ID or Oil Lease #.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - O	WELL #

13. Pipe Line Connection

14. Completion or Recompletion Date: 4-11-83

15. List of Offset Operators Notified and Date of Notification

Any Condensate on hand at time of Workover or Recompletion? ☐ Yes ☐ No

16. Type of Electric or other Log Run.

1. FIELD NAME (as per RRC Records or Wildcat): Medio Creek (Vicksburg F-1)

2. LEASE NAME: Samuel Denver Chestnuty "B"

3. OPERATOR: Exxon Corporation

4. ADDRESS: Wilson Tower, Corpus Christi, Texas 78476

5. LOCATION (Section, Block, and Survey): Garrett Roache (A-59)

5b. Distance and Direction from nearest town in this county: 10.1 miles NE of Skidmore

6. If Operator has changed within last 60 days - Give former Operator.

RECORD CODIFICATION
8 1983

NFD 5/16/83 C. Ross #64

Section I — GAS MEASUREMENT DATA

Date of Test: 4-13-83

Gas Measurement Method (Check One): Orifice Meter XX (Flange Taps XX, Pipe Taps ☐); Positive Choke ☐; Orifice Vent Meter ☐; Pitot Tube ☐; Critical-flow Prover ☐

Gas produced during test: 453 MCF

Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P_m or Choke Press.	Diff h_w	Flow Temp. °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
2.900	1.500	14871.87	515	68.0	76	.9850	1.0189	1.037	2896
2.900	1.500	14871.87	515	34.5	88	.9741	1.0189	1.033	2032
2.900	1.500	14871.87	515	23.0	71	.9896	1.0189	1.039	1696
2.900	1.500	14871.87	515	10.0	85	.9768	1.0189	1.035	1099

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity Dry Gas	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-In Temp.	Bottom Hole Temp.
.578	51.9 Deg. API	487542 CF Bbl	G_{mix} = .584	119 °F	164 °F @ 5008' (Depth)

$D_{eff}^{8.3}$ / T_f / √GL

$C = 1118 \times (D_{eff})^{8.3}$ / T

√GL / C

Run No.	Time of Run Min	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_t	P_w/P_t
Shut-In	24 Hrs.		1784	74					
	150	16/64	1760	95					
	45	14/64	1770	95					
	45	12/64	1773	95					
	45	10/64	1780	95					

WATER BOARD LETTER DATED 4-19-83

Depth 1300 ft.

13(A) Exception Dated

Surface Casing

Run No.	F	K	S	R.E.	P_f and P_s	P_f^2 and P_s^2	$P_f^2 - P_s^2$	Angle of Slope
Shut-In					2004	4016		θ = 45°
					1992	3968	48	n = 1.000
					1993	3972	44	
					1994	3976	40	
					1995	3980	36	

Used Amerada
1" BHP Gage
3100# Element
SN: 18297

MAY

Absolute Open Flow: 240000 MCF/DAY

An inclination survey has been run in accordance with Statewide Rule 11 and the results are available upon request. Maximum horizontal displacement was ..... feet at a measured depth of ..... feet.

RECEIVED R.R.C. OF TEXAS APR 27 1983 O.G. SPLANTING TEXAS

Signature of Authorized Representative — Name of Company Conducting Survey

I have knowledge that the cementing operations, as reflected by the information found on the reverse side of this form, were performed as indicated by such information.

025-31982

Signature of Cementer or Authorized Representative — Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

DR-79

G. F. Presson — PRORATION SUPERVISOR — APR 26 1983 — Phone 512/887-2223

REPRESENTATIVE OF COMPANY — G. F. PRESSON — TITLE — DATE — A/C NUMBER

This test was conducted at the request of the operator for the express purpose of satisfying RRC requirements. Its suitability for any other purpose is not certified by FESCO, Inc. For details contact FESCO, Inc.

VALID PERMIT
PRODUCTION ALLOCATION

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest) PREVIOUS DATE 4/14/83

17. Type of Completion: New Well X Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 2/28/83 — PERMIT NO. 197355

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this Well was filed in Name of: EXXON CORPORATION

20. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

21. Total Number of Acres in this Lease: 726.77

22. Date Plug Back, Deepening, Work Over or Drilling Operations — Commenced 3/9/83 — Completed 3/15/83

23. Distance to Nearest Well, Same Lease & Reservoir: —

24. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 1126 Feet From S Line And 1236 Feet From W Line of the SAMUEL DENVER CHESTNUT "B" Lease

25. Elevation (DF, RKB, RT, GR, ETC): 181.5 D.F.

26. Was Directional Survey Made Other Than Inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay: 5005 — 28. Total Depth: 5236 — 29. P. B. Depth: 5094

30. Surface Casing Determined by: Field Rules [ ] — Recommendation of T.D.W.R. [X] Railroad Commission (Special) [ ] — Dt. of Ltr. 3-3-83 — Dt. of Ltr.

31. Is Well Multiple Completion? Yes [ ] No [X]

32. If Multiple Completion List All Reservoir Names (Completion in this Well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: PENRICK DRILLING CO

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (Sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
10 3/4	40.5	1468.9		CCA-910SX	14 3/4	SURFACE	1462
7	23	5136.27		CCH-1625SX	9 7/8	100	2036.2

37. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 7/8"	4750'	

39. Producing Interval (this completion) indicate Depth of Perforation or Open Hole

From	To
5005'	5011'

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS

Formations	Depth	Formations	Depth
SD & GAMBO	0-944	SD & SH	5130-5236
SD & SH	944-3549		
SH	3549-5130		

REMARKS: NOTE: PERMITTED AS CHESTNUT, SAMUEL DENVER and as WELL #2, PER Phone call 5-16-83 G.E. PRESSON VERIFIED THIS IS THE CORRECT INFORMATION IN U.I. WELL #1 & LEASE NAME SAMUEL CHESNUTT "B" [illegible]

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

6. RRC District: 2
7. RRC Lease Number, (Oil completions only):
8. Well Number: 1
9. RRC Identification Number (Gas completions only):
10. County: Bee

1. FIELD NAME (as per RRC Records or Wildcat): Medio Creek
2. LEASE NAME: Samuel Denver Chestnut "8"
3. OPERATOR: Exxon Corporation
4. ADDRESS: Wilson Tower, Corpus Christi, Texas 78476
5. LOCATION (Section, Block, and Survey): Garrett Roache (A-59)

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
500	5.00	1/2	.873	4.36	4.36
1500	10.00	1/4	.436	4.36	8.72
2500	10.00	1/2	.873	8.73	17.55
3500	10.00	1	1.745	17.45	34.90
4500	10.00	1-1/4	2.182	21.82	56.72
5130	6.30	2	3.490	21.99	78.71
5395	2.65	2	3.490	9.25	87.95

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If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? [ ] yes [X] no
18. Accumulative total displacement of well bore at total depth of 5395' feet = 87.95 feet.
*19. Inclination measurements were made in – [ ] Tubing [ ] Casing [X] Open hole [ ] Drill Pipe
20. Distance from surface location of well to the nearest lease line 1126' feet.
21. Minimum distance to lease line as prescribed by field rules 467' feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO
(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

William Hartley
Signature of Authorized Representative
William Hartley
Name of Person and Title (type or print)
PenRick Drlg. Co., Inc.
Name of Company
Telephone: 512 887-9396
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented hereon except inclination data as indicated by asterisks (*) by the item numbers on this form.

G. F. Presson
Signature of Authorized Representative
G. F. Presson, Proration Specialist
Name of Person and Title (type or print)
Exxon Corporation
Operator
Telephone: 512 887-2228
Area Code

DID 105814

Railroad Commission Use Only:
Approved By: Title: Date: 5-2-83

* Designates items certified by company that conducted the inclination surveys

[illegible]

[illegible]LROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev. 5-1-80)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Medio Creek	*2. RRC District: 2
*3. Operator: Exxon Company U.S.A.	*4. County: San Patricio 105864
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): S. D. Chestnutt "B"	*6. Well Number: 1
*7. Location (Section, Block, and Survey)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date	03-11-83					
*9. (a) Size of Drill Bit (inches)	14 3/4					
(b) Estimated Wash or Hole Enlargement Used in Calculations	-					
*10. Size of Casing (inches O.D.)	10 3/4					
*11. Top of Liner (if liner used) (ft.)	-					
*12. Setting Depth of Casing (ft.)	1468					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "Pr" or "UKS" on reverse side.)	A + 8% Gel + 5% Salt					
(b) In Second Slurry	A + 2% $CaCl_2$					
(c) In Third Slurry	-					
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	525					
(b) In Second Slurry	385					
(c) In Third Slurry	-					
(d) Total Sacks of Cement Used	910					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	1.92					
(b) In Second Slurry	1.18					
(c) In Third Slurry	-					
16. Volume of Slurry Pumped (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	1008					
(b) In Second Slurry	454					
(c) In Third Slurry	-					
(d) Total Slurry Volume Pumped (cu.ft.)	1462					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	2628					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	YES					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED RRC OF TEXAS APR 27 1983 O.G. SAN ANTONIO, TEXAS

R ID 105864

*CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF

- OVER -

* Designated [illegible] completed by Operator. Items not so designated shall be completed by Cementing Company.

CEMENTING COMPANY

I declare under penalties prescribed in Article 6033c, R. C. S. that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Rafael Curiel
Signature of Cementer or Authorized Representative

Rafael Curiel
Name of Person and Title (type or print)

The Western Company
Cementing Company

P. O. Box 1730
Street Address or P. O. Box

Alice, Texas 78332
City, State Zip Code

Telephone 512 664-2607
Area Code

March 11, 1983
Date

*OPERATOR

I declare under penalties prescribed in Article 6033c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

G. P. Presson
*Signature of Operator or Authorized Representative

G. F. PRESSON PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER
*Street Address

CORPUS CHRISTI, TX 78476
*City, State Zip Code

*Telephone 512/887-2228
Area Code

APR 26 1983
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules, unless the Form G-1 or W-2 is signed by the cementing company representative.
   (2) Each copy of Form W-3, unless the Form W-3 is signed by the cementing company representative.
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form to be filed in duplicate.
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
4. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water is
      (1) Field Rule
      (2) Texas Water Development Board if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
5. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
6. If setting NO SURFACE CASING (See Item 4 above):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
7. If setting SHORT SURFACE CASING (See Item 4 above):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface of
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
8. Setting PRODUCTION STRING of Casing. (Statewide Rules. Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. Where 7,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
9. PLUGGING AND ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission (plus any additional plugs as may be specified by the RRC District Director).
   B. The minimum amount of cement that will be used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

052-1070

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev. 5-1-80)

CEMENTING REPORT

10[illegible]

*1. Field Name (as per RRC Records or Wildcat): Medio Creek	*2. RRC District: 2
*3. Operator: Exxon Company U.S.A.	*4. County: See
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): S. D. Chestnut "B"	*6. Well Number: # 1
*7. Location (Section, Block, and Survey)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date		03-22-83				
*9. (a) Size of Drill Bit (inches)		9 7/8				
(b) [illegible] Enlargement Used in [illegible]		-				
*10. Size of Casing (inches O.D.)		7				
*11. Top of Liner (if liner used) (ft.)		-				
*12. Setting Depth of Casing (ft.)		5135				
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)		See #26				
(b) In Second Slurry		See #27				
(c) In Third Slurry		H + .3% CF-9				
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry		395				
(b) In Second Slurry		440				
(c) In Third Slurry		790				
(d) Total Sacks of Cement Used		1625				
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry		1.52				
(b) In Second Slurry		1.36				
(c) In Third Slurry		1.06				
16. Volume of Slurry Pumped (cu.ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry		600.4				
(b) In Second Slurry		598.4				
(c) In Third Slurry		837.4				
(d) Total Slurry Volume Pumped (cu.ft.)		2036.2				
17. Calculated Annular Height of Cement Slurry Behind Pipe (ft.)		7695.0				
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)		NO				

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. OF TEXAS
APR 27 1983
SAN ANTONIO, TEXAS

2 ID 105864

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks: L.W. + .3% CF-10 + 5#/SK Hi-Seal + .2% AF-HD

*27. Remarks: T-I Talc + .4% CF-10 + 5#/SK Hi-Seal + .2% AF-HD

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Luis Vela Jr.
Signature of Cementer or Authorized Representative

Luis Vela, Jr.
Name of Person and Title (type or print)

The Western Company
Cementing Company

P. O. Box 1730
Street Address or P. O. Box

Alice, Texas 78332
City, State Zip Code

Telephone 512 664-2607
Area Code

March 22, 1983
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

G. F. Presson, SPECIALIST
*Signature of Operator or Authorized Representative

G. F. PRESSON
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER
*Street Address

CORPUS CHRISTI, TX 78476
*City, State Zip Code

*Telephone 512/387-2228
Area Code

APR 2 P 1993
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules, unless the Form G-1 or W-2 is signed by the cementing company representative
   (2) Each copy of Form W-3, unless the Form W-3 is signed by the cementing company representative
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING
   A. Depth to protect fresh water by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above)
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing (Statewide Rules, Special Rules may vary)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 9,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING AND ABANDONING
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed at the top of the well.

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

FORM W-1
1/1/81

API Well No. 42 025 31982
Instruction (7a & b) on back side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

☐ Directional Well ☐ Sidetrack ☒ Amended Permit (Explain in Remarks)

RRC Permit Number, if previously assigned. 187355

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: ☒ DRILL ☐ DEEPEN (Below Casing) ☐ DEEPEN (Within Casing) ☐ PLUG BACK ☐ RE-ENTER

7. RRC District: 2
8. County: Bee

1. Operator: EXXON CORPORATION
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78476
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES ☒ NO ☐ (Instruction (2) on back side.)

4a. Lease Name (32 Spaces Maximum): Samuel Denver Chestnutt "8"
4b. RRC Lease or ID No. (If assigned):
5. Location (Sec., Blk., Survey): Garrett Roache (A-59)
6. This well is to be located 10.1 miles NE Direction from Skidmore, Texas Nearest Post Office or Town.
9. Well Number: 1
10. Number of Contiguous Acres in Lease or Unitized Tract: 726.77
11. Distance from Proposed Location to Nearest Lease or Unit Line (ft.): 1126
12. Total Depth: 5910

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exc. Case Numbers for this wellbore, if none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of completed, permitted or applied for, locations on this lease in same reservoir for which this permit is sought: Oil	Gas
60148 450 Medio Creek (4800)	4855	---	467-1200	40	40	NO	---	Regular ☒ Rule 37 ☐	Gas	--	-0-
Wildcat Above	5910	---	467-1200	40	40	NO	---	Regular ☒ Rule 37 ☐	Oil or Gas	---	---
00004 001 (Medio Creek (Vicksburg F-1) IAH 105864)								Regular ☐ Rule 37 ☐			
								Regular ☐ Rule 37 ☐			

RECEIVED RRC OF TEXAS APR 18 1983

24. PERPENDICULAR LOCATION FROM LEASE DESIGNATED:
A. Lease Lines: 1126' from S line and 1236' from W line
B. Survey Lines: 11100' from NE Corner and 1925' from E line

25. (a) Is this wellbore subject to SWR 36? Yes ☐ No ☒
(b) If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.) Yes ☐ No ☐

26. Do you anticipate future use of this wellbore to complete in any penetrated zone not listed in Column 13, for which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see Instruction #8. Yes ☐ No ☒

27. Is this a pooled unit? YES ☐ (Attach P-12, certified plat, & list of pooled zones) NO ☒

28. Subdivided Acreage YES ☐ (Attach W-1A) NO ☒

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

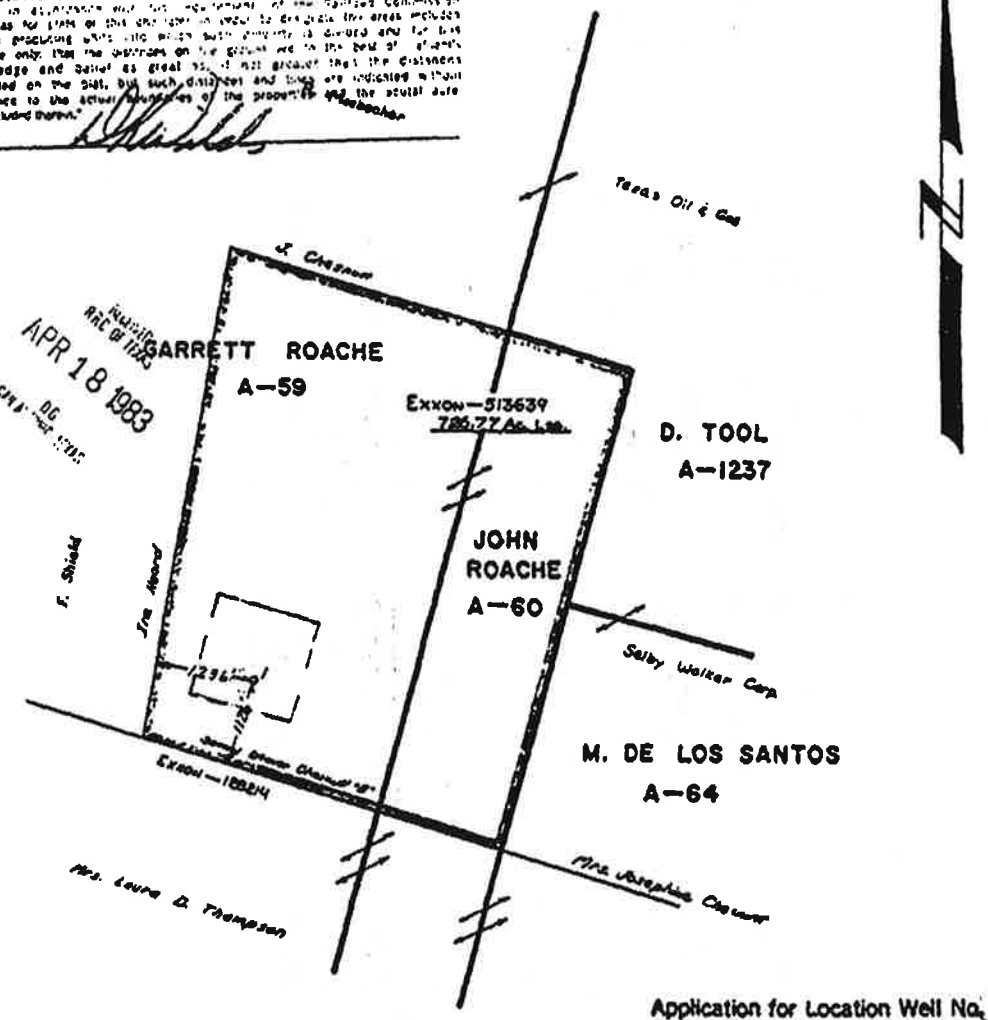
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS: Amend to change lease name and Well Number.
Original W-1 submitted 02/16/83 as Samuel Denver Chestnut well no. 2

Signature: G. F. Presson
Title: G. F. Presson, Proration Specialist
Date: April 14, 1983
Telephone: Area Code 512 887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

025-31982



Application for Location Well No. 1
Located 1126 ft. from S line
and 1236 ft. from W line of Lease
Located 11,100 ft. from NE ~~line~~ Corner
and 1925 ft. from E line of Survey
Distances are perpendicular to Lease/Survey

NOTE: All well units shown have 40 Acres unless otherwise noted.

R.R.C.
SAMUEL DENVER CHESNUTT "B"
MEDIO CREEK FIELD BEE COUNTY, TX

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION
PRODUCTION DEPARTMENT

DRAWN M.J. Riff	ENGR. SECTION Civil	REVISED	SCALE 1" = 2000'	JOB NO.	FILE NO.
CHECKED	APPROVED		DATE 2-15-83		SWT-A-3144-2

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

FORM W-1
1/1/81

API Well No. 42 025-31982
Instruction (7a & b) on back side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

☐ Directional Well ☐ Sidetrack ☒ Amended Permit (Explain in Remarks)

RRC Permit Number, if previously assigned. 187355

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: ☒ DRILL ☐ DEEPEN (Below Casing) ☐ DEEPEN (Within Casing) ☐ PLUG BACK ☐ RE-ENTER

7. RRC District: 2

8. County: Bee

1. Operator: Exxon Corporation 257097

2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78476 007247

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES ☒ NO ☐ (Instruction (2) on back side.)

4a. Lease Name (32 Spaces Maximum): Samuel Denver Chestnut

4b. RRC Lease or ID No. (If assigned):

5. Location (Sec., Blk., Survey): Garrett Roach (A-59)

6. This well is to be located 10.1 miles NE Direction from Skidmore, Texas, Nearest Post Office or Town.

9. Well Number: 12

10. Number of Contiguous Acres in Lease or Pooled Tract: 78.7

11. Distance from Proposed Location to Nearest Lease or Unit Line (ft.): 1126

12. Total Depth: 5910

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exce. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing Pattern, if no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern, if no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of completed, permitted or applied for, locations on this lease in same reservoir for which this permit is sought? OIL	GAS
Medio Creek (4800)	4855	--	467-1200	40	40	No	--	Regular ☒ Rule 37 ☐	Gas	--	-0-
Wildcat Above	5910	--	467-1200	40	40	No	--	Regular ☒ Rule 37 ☐	Oil or Gas	--	--
Permit Amd. 5-3-82								Regular ☐ Rule 37 ☐			
								Regular ☐ Rule 37 ☐			

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED LINES
A. Lease Lines 1126' from S. line and 1236' from W. line
B. Survey Lines 11100' from NE corner and 1925' from E. line

25. (a) Is this wellbore subject to SWR 36? Yes ☐ No ☒
(b) If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.) ☐ ☐

26. Do you anticipate future use of this wellbore to complete in any penetrated zone not listed in Column 13, for which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see Instruction #9. Yes ☐ No ☒

27. Is this a pooled unit? YES ☐ (Attach P-12, certified plat, & list of pooled zones) NO ☒

28. Substandard Acreage YES ☐ (Attach W-1A) NO ☒

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.

RECEIVED RAILROAD COMMISSION OF TEXAS MAR 03 1983 OIL & GAS SAN ANTONIO, TEXAS

REMARKS: Amend to change location. Original W-1 submitted 02/16/83.

Walked to Austin 3-2-83

Signature: G. F. Presson

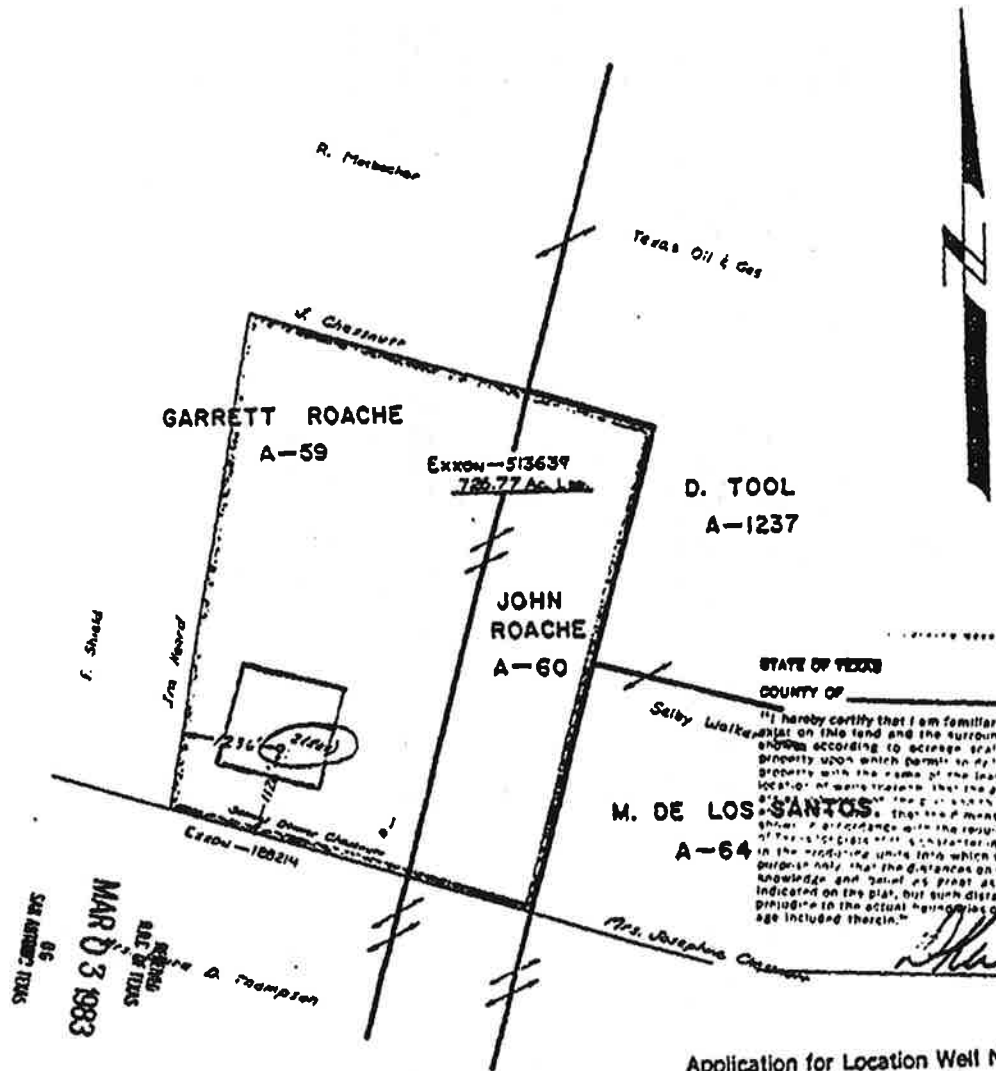
Title: G. F. Presson, Proration Specialist

Date: March 2, 1983

Telephone: Area Code 512 887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

025-31982



STATE OF TEXAS
COUNTY OF

"I hereby certify that I am familiar with the conditions as they actually exist on this land and the surrounding land; that this plat accurately shows according to acreage scale indicated thereon, the [illegible] property upon which permit to drill is sought and shows each [illegible] property with the name of the lease owner or the fee owner and the location of wells thereon; that the acreage, number and location of wells [illegible] the [illegible] plat correctly [illegible] [illegible] the [illegible] mentions, [illegible] [illegible] in accordance with the requirements of the Railroad Commission of Texas [illegible] character in proper [illegible] designate the area [illegible] in the producing units into which such property is divided and for this purpose only, that the distances on the ground are to the best of affiant's knowledge and belief as great as, if not greater than the distances indicated on the plat, but such distances and lines are indicated without prejudice to the actual boundaries of the properties and the actual acreage included therein."

D. H. Wilds

MAR 03 1983
RECEIVED
R.R.C. OF TEXAS
SAN ANTONIO, TEXAS

Application for Location Well No. 2(Rev)
Located 1126 ft. from S line
and 1236 ft. from W line of Lease
Located 11,100 ft. from NE ~~line~~ Corner
and 1925 ft. from E line of Survey
Distances are perpendicular to Lease/Survey

NOTE: All well units shown have 40 Acres unless otherwise noted.

R.R.C. SAMUEL DENVER CHESNUTT LSE.# 513639 MEDIO CREEK FIELD BEE COUNTY, TX		EXXON COMPANY, U.S.A. A DIVISION OF EXXON CORPORATION PRODUCTION DEPARTMENT		
DRAWN M. J. Riff	ENGR SECTION Civil REVISED	SCALE 1" = 2000'	JOB NO	FILE NO SWT-A-3144-2
CHECKED	APPROVED	DATE 2-15-83		

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

187355 FORM W-1 1-1-81

API Well No. 42 Instruction (7a & b) on back side. 025-31982

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

[ ] Directional Well [ ] Sidetrack [ ] Amended Permit (Explain in Remarks)

RRC Permit Number, if previously assigned.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: [XX] DRILL [ ] DEEPEN (Below Casing) [ ] DEEPEN (Within Casing) [ ] PLUG BACK [ ] RE-ENTER

7. RRC District: 2
8. County: Bee

1. Operator: EXXON CORPORATION 257097
2. Address (including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78476 007247
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] NO [ ] (Instruction (2) on back side.)

4a. Lease Name (32 Spaces Maximum): Samuel Denver Chestnut
4b. RRC Lease or ID No. (if assigned):
5. Location (Sec., Blk., Survey): Garrett Roache (A-59)
6. This well is to be located 3.5 miles NE Direction from Skidmore, Texas Nearest Post Office or Town.
9. Well Number: 2
10. Number of Contiguous Acres in Lease or Unitized Tract: 726.77
11. Distance from Proposed Location to Nearest Lease or Unit (ft.): 1096
12. Total Depth: 5910

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exec. Case Numbers for this well/lease. If none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23.
6019B 750 Medio Creek (4800)	4855	---	467-1200 ✓	40 ✓	40	NO	---	Regular [X] Rule 37 [ ]	Gas ✓	---
Wildcat Above	5910	---	467-1200 ✓	40 ✓	40	NO	---	Regular [X] Rule 37 [ ]	Oil or Gas	---
00004 001			Code 1 DACX					Regular [ ] Rule 37 [ ]		
								Regular [ ] Rule 37 [ ]		

FEB 17 1983

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED LEASE LINES
A. Lease Lines: 1286' from W line & 1096' from S line
B. Survey Lines: 21480' from SE Corner & 1875' from SE line

25. Is this wellbore subject to SWR 36? Yes [ ] No [X]
(If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.)

26. Do any anticipated future wells on this lease produce from the same prorated or unitized reservoir as any well listed in Column 13, or which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such wells and see Instruction #9. Yes [ ] No [X]

27. Is this a pooled unit? YES [ ] (Attach P-12, certified plat, & list of pooled tracts) NO [X]
28. Substandard Acreage YES [ ] (Attach W-1A) NO [X]

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Conservation rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS

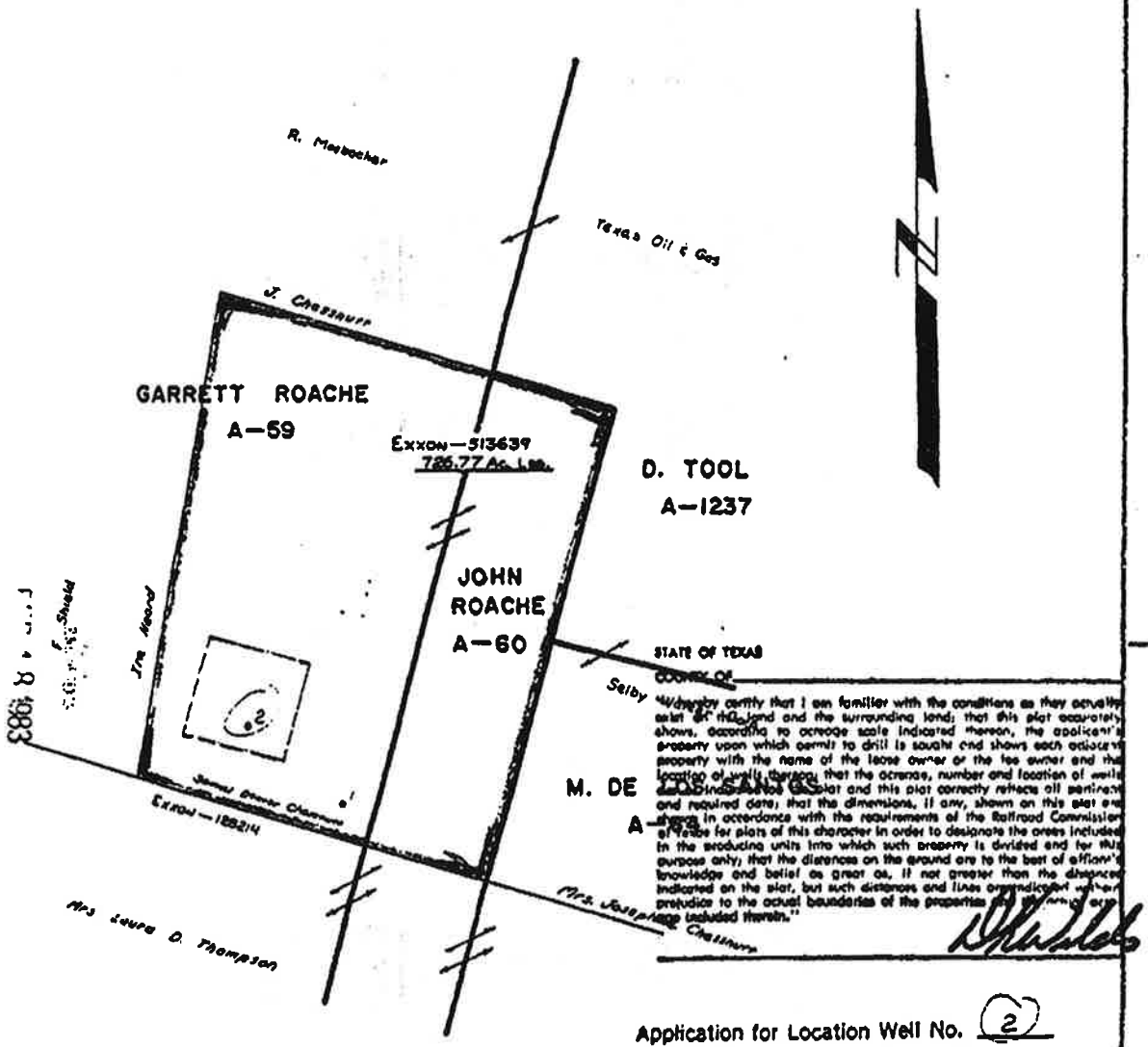
CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete, to the best of my knowledge.

Signature: G. F. Presson
Title: G. F. Presson, Proration Specialist
Date: February 16, 1983
Telephone Area Code: 512 887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

025-31982



STATE OF TEXAS
COUNTY OF

I (We) hereby certify that I am familiar with the conditions as they actually exist on this land and the surrounding land; that this plat accurately shows, according to acreage scale indicated thereon, the applicant's property upon which permit to drill is sought and shows each adjacent property with the name of the lease owner or the fee owner and the location of wells thereon; that the acreage, number and location of wells [illegible] on this plat and this plat correctly reflects all pertinent and required data; that the dimensions, if any, shown on this plat are [illegible] in accordance with the requirements of the Railroad Commission of Texas for plats of this character in order to designate the areas included in the producing units into which such property is divided and for this purpose only; that the distances on the ground are to the best of affiant's knowledge and belief as great as, if not greater than the distances indicated on the plat, but such distances and lines are [illegible] without prejudice to the actual boundaries of the properties [illegible] included therein."

Application for Location Well No. (2)
Located 1286 ft. from W line
and 1096 ft. from S line of Lease
Located 21,480 ft. from SE Corner
and 1875 ft. from SE line of Survey
Distances are perpendicular to Lease/Survey

NOTE: All well units shown here 40 Acres unless otherwise noted.

R. R. C.
SAMUEL DENVER CHESNUTT LSE.# 513639
MEDIO CREEK FIELD BEE COUNTY, TX

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION
PRODUCTION DEPARTMENT

DRAWN M. J. Riffe | ENGR SECTION Civil | REVISED | SCALE 1" = 2000' | JOB NO | FILE NO
APPROVED | DATE 2-15-85

Type or print only

483-047

P

RECEIVED
R.R.C. OF TEXAS
NOV 19 1984
OIL
SAN ANTONIO, TEXAS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42-025 31982

7. RRC District No. 02

8. RRC Gas ID No. 105864

Gas Well Back Pressure Test
Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): MEDIO CREEK (VICKSBURG F-1)
2. LEASE NAME: SAMUEL DENVER CHESTNUTT "B"
3. OPERATOR'S NAME (Exactly as shown on Form P-5 Organization Report): EXXON CORPORATION
RRC Operator No. 257097
4. ADDRESS: WILSON TOWER
CORPUS CHRISTI, TX 78476
5. Location (Section, Block, and Survey): GARRETT ROACHE AB=59
5b. Distance and direction to nearest town in this county: 10 mi NE of SKIDMORE
6. If operator has changed within last 60 days, name former operator: ____
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #
MEDIO CREEK (VICKSBURG F-1)	105864	G	1

13. Pipe Line Connection: EXXON PIPELINE
14. Completion or recompletion date: 8/24/84
15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☒ No
16. Type of Electric or other Log Run: NEUTRON
9. Well No. 1
10. County of well site: BEE
11. Purpose of filing: Initial Potential ☒ Retest ☐ Reclass ☐ Well record only (Explain in remarks) ☐

Section I — GAS MEASUREMENT DATA

Date of Test: Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ Positive Choke ☐ Orifice Vent Meter ☐ Pitot Tube ☐ Critical flow Prover ☐

Gas produced during test: MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P_m or Choke Press.	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress. Factor F_{pv}	Volume MCF/DAY
1										
2										
3										
4										

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix} =	Avg. Shut in Temp. °F	Bottom Hole Temp. °F @ (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\quad}$ = $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = $\frac{\sqrt{GL}}{C}$ = ____ = ____

UNSUCCESSFUL WORKOVER

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_f	P_w/P_f
Shut In									
1									
2									
3									
4									

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In							
1							
2							
3							
4							

Return to Central Records

Angle of Slope
θ .....
n .....
Absolute Open Flow
..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Helen Casner — PROPATION SPECIALIST — NOV 15 1984 — Tel. 512/887-2228

Signature: Operator's representative — HELEN CASNER — Title — Date — A.C. Number

025-31982

MAILING

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17 Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18 Permit to Drill, Plug Back or Deepen — DATE: 1/25/84 — PERMIT NO: 227479
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19 Notice of Intention to Drill this well was filed in Name of: EXXON CORPORATION

20 Number of producing wells on this lease in this field (reservoir) including this well: —

21 Total number of acres in this lease: 727

22 Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 7-24-84 — Completed 8-24-84

23 Distance to nearest well, Same Lease & Reservoir: —

24 Location of well, relative to nearest lease boundaries of lease on which this well is located: 1126 Feet From SOUTH Line and 1236 Feet from WEST Line of the SAMUEL DENVER CHESTNUTT 'B' Lease

25 Elevation (DF, RKB, RT, GR, ETC.): 181.5 DF

26 Was directional survey made other than inclination (Form W-12)? ☐ Yes ☒ No

27 Top of Pay: —

28 Total Depth: 5236

29 P. B. Depth: 4900 ±

30 Surface Casing Determined by: Field Rules ☐ Recommendation of T.D.W.R. ☒ Railroad Commission (Special) ☐ — Dt. of Letter 3-3-83 — Dt. of Letter

31 Is well multiple completion? ☐ Yes ☒ No

32 If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. — FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #

33 Intervals Drilled by: Rotary Tools X — Cable Tools

34 Name of Drilling Contractor: PENRICK DRLG Co.

35 Is Cementing Affidavit Attached? ☐ Yes ☒ No

36 CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT. / FT	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL cu. ft.
10 3/4	40.5	1468.5		A - 910	14 3/4	SURFACE	1482
7	23	5136.2		H - 1625	9 7/8	100	2036.2

37 LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38 TUBING RECORD

Size	Depth Set	Packer Set

39 Producing Interval (this completion) Indicate depth of perforation or open hole

From	4844	To	4847
From		To	
From		To	
From		To	

40 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

Depth Interval	Amount and Kind of Material Used
5005 - 5011	SQZD W/ 3 BBLS CMT SLURRY

41 FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
SAND GUMBO	0 - 944	SAND SHALE	5130 - 5236
SAND SHALE	944 - 3549		
SHALE	3549 - 5130		

REMARKS: UNSUCCESSFUL WORKOVER TO THE (4800) RESERVOIR. COVERED UNDER 14 B2 BLANKET BOND & PLUGGING I-85.

▶ Return each W-1 with plat and $100.00 fee. Make a check or money order payable to the State Treasurer of Texas. Address to: Railroad Commission of Texas, Oil and Gas Division, Drilling Permits, P. O. Drawer 12967, Capitol Station, Austin, Texas 78711

▶ File a copy of W-1 and plat in RRC District Office.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ Read Instructions on Back

Form W-1
Rev. 9/1/83
483 080

Purpose of filing (mark appropriate boxes): ☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here. ▶ API No. 42- 025-31982
If assigned: Permit No. 227479 ~~187355~~*
Rule 37 Case No. ▶

1 Operator's Name (exactly as shown on Form P-5, Organization Report): EXXON CORPORATION
3 RRC Operator No.: 257097
4 RRC District No.: 2
5 County of Well Site: Bee

2 Address (including city and zip code): WILSON TOWER, CORPUS CHRISTI, TX 78476 007247

6 Lease Name (32 spaces maximum): Samuel Denver Chesnutt "B"
7 RRC Lease ID No.:
8 Well No.: 1
9 Total Depth: 5236

10 Location
• Section ____ Block ____ Survey Garrett Roache Abstract No. A 59
• This well is to be located 10.1 miles in a NE direction from Skidmore which is the nearest town in the county of the well site

11 Distance from proposed location to nearest lease or unit line: 1126 ft.

12 Number of contiguous acres in lease, pooled unit, or unitized tract: 726.77 (OUTLINE ON PLAT.)

Granted 1/25/84

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Medio Creek (4800) 00198750	4855	467/1200	40	40 ✓	NO	----	Gas	---	1
Wildcat Above 00004001	5236	467/1200	40	40 ✓	NO	----	Gas	---	1

22 Perpendicular surface location from two nearest designated lines:
• Lease Line: 1126' from S line & 1236' from W line
• Survey/Section: 11,100' from NE corner & 1925' from E line

If directional well, show also projected bottom hole location.
• Lease Line: ____
• Survey Section: ____

23 Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat) No ☒

24 Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25 Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☒ ▶ If not filed, explain in Remarks

26 Do you have the right to develop the minerals under any right of way that crosses, or is contiguous to, this tract? Yes ☒ No ☐ If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37

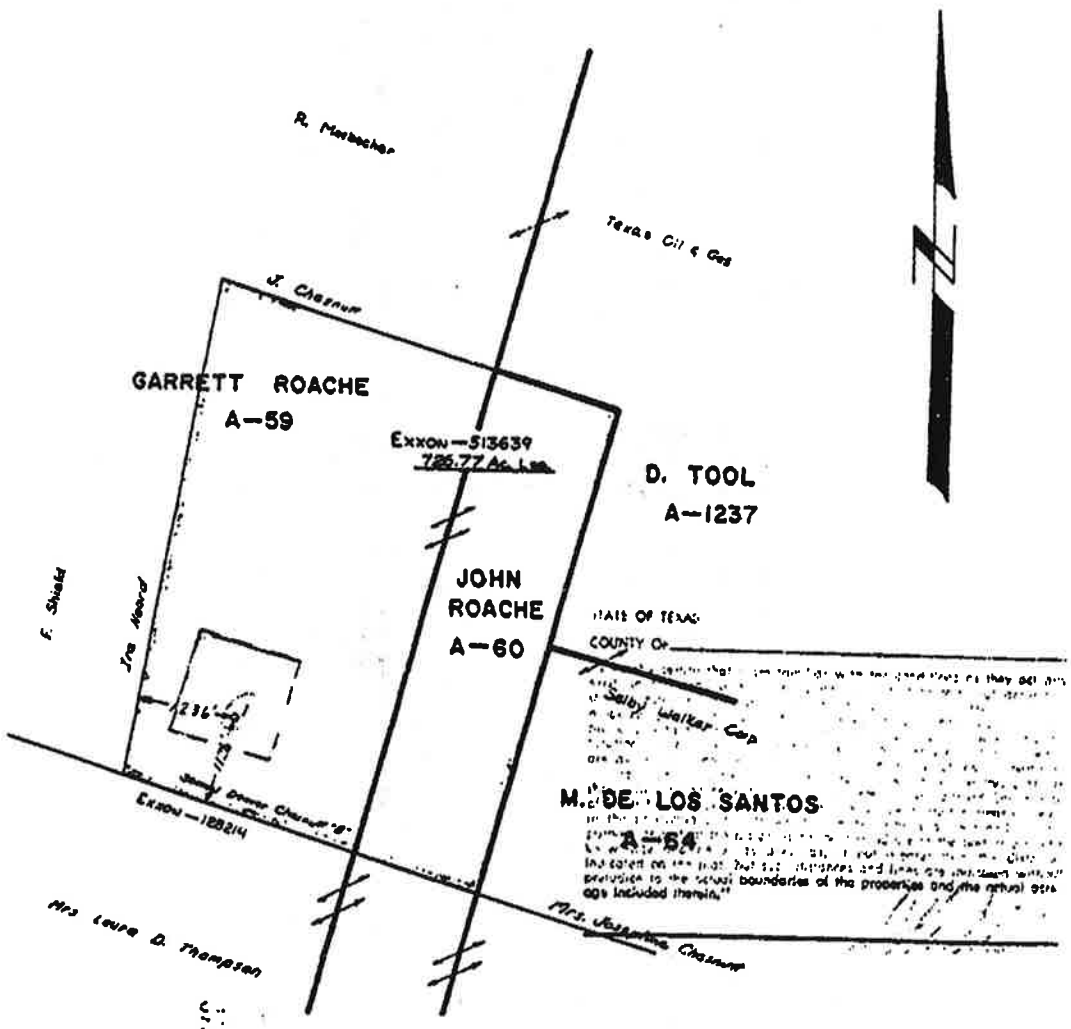
Remarks
*Completion date for this permit was 4-11-83.

I certify that information stated in this application is true and complete, to the best of my knowledge.
Helen Casner
Signature
Helen Casner, Proration Specialist
Name and title of operator's representative
January 23, 1984 (512) 887-2228
Date (mo day yr) Tel Area Code Number

• RRC Use Only •

229110

025-31982



APPLICATION FOR LOCATION WELL # (1)

LOCATED 1126 FT. FROM S LINE
AND 1236 FT. FROM W LINE OF LEASE
LOCATED 11,100 FT. FROM NE COR ~~LINE~~
AND 1925 FT. FROM E LINE OF SURVEY

DISTANCES ARE PERPENDICULAR TO LEASE/SURVEY

NOTE: All well units shown have 40 Acres unless otherwise noted.

R.R.C.
SAMUEL DENVER CHESNUTT "B"
MEDIO CREEK FIELD BEE COUNTY, TX

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION
PRODUCTION DEPARTMENT

DRAWN M. J. Riff	ENGR. SECTION Civil	REVISED	SCALE 1" = 2000'	JOB NO	FILE NO
CHECKED	APPROVED		DATE 2-15-83		S.U.T. A 3144-2

110 0004 1A

MAP ID #31

API# 42-025-33703
DRY HOLE

(31)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
REV. 12/92 (99)

API NO. (if available) 42-025-33703

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number

2. FIELD NAME (as per RRC Records): WILDCAT

3. Lease Name: SASSER

5. Well Number: #3

6. OPERATOR: Mego Resources, LLC

6a. Original Form W-1 Filed in Name of: Mego Resources, LLC

10. County: Bee

7. ADDRESS: 1229 FM 889 George West, Texas 78022

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 2/17/10

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 11,200 Feet From NE Line and 525 Feet From SE Line of the White Point Oil + Gas Lease

12. Permit Number: 691279

9a. SECTION, BLOCK, AND SURVEY: G. ROACHE A-59

9b. Distance and Direction From Nearest Town in this County: 10 Miles NE Skidmore, Texas

13. Date Drilling Commenced: 3/12/10

16. Type Well (Oil, Gas, Dry): Dry

Total Depth: 4,863

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil – O Gas – G	WELL #

14. Date Drilling Completed: 3/17/10

18. If Gas, Amt. of Cond. on Hand-at-time-of Plugging

15. Date Well Plugged: 3/24/10

CEMENTING TO PLUG AND ABANDON DATA:	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
*19. Cementing Date	3-23-10	3-23-10	3-24-10	3-24-10				
20. Size of Hole or Pipe in which Plug Placed (inches)	7 7/8	8 5/8	8 5/8	8 5/8				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	3130	1400	850	13				
*22. Sacks of Cement Used (each plug)	55	45	40	10				
*23. Slurry Volume Pumped (cu. Ft.)	65	54	48	10.6				
*24. Calculated Top of Plug (ft.)	2980	1243	715	3				
25. Measured Top of Plug (if tagged) (ft.)		1270						
*26. Slurry Wt. #/Ga.	15.6	15.6	15.6	16.4				
*27. Type Cement	A	A	A	H				

RECEIVED
RRC OF TEXAS
APR 28 2010
OIL & GAS DIVISION
SAN ANTONIO, TX

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	800'	800'	12 1/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: ☑ Yes ☐ No

29a. If answer to above is "Yes" state depth to top of "Junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.) Twisted off drill pipe. Left Bit, 9 Collars, Overshot, Bumper Jars, Oil Jars and Drill pipe in the hole. Top of Fish @ 3,130'

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 3,130	TO 4,863	FROM T.N.R.C.C. LETTER DATED	TO 2-19-10
FROM	TO	FROM Depth 1,350	TO ft.
FROM	TO	FROM	TO
FROM	TO	FROM 13(A) Exception Dated	TO 2-25-10
FROM	TO	FROM Surface Casing 800'	ft.

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

D.V. @ ft.

Wesley Long
Signature of Cementer or Authorized Representative

BJ Services Company
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY	TITLE	DATE	Phone A/C	NUMBER
Don Mitchell	Managing Partner	4/1/10	361	649-5800

RECEIVED
CENTRAL RECORDS
JUL 16 2010
AUSTIN, TEXAS

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

Arrow Drlg. Sasser #3
Bee Co. P&A

025-33703

MAPPING

31. Was Well filled with Mud-Laden Fluid according to the regulations of the Railroad Commission? X Yes ☐ No	32. How was Mud Applied? Pump	33. Mud Weight 10.1 LBS / GAL
34. Total Depth 4,863 Depth of Deepest Fresh Water 1,350	Other Fresh Water Zones by T.D.W.R. TOP / BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules? ☑ Yes ☐ No 36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
BJ SERVICES COMPANY 411 Hartman Road Victoria, Texas 77905

Date R R C District Office notified of plugging Yes

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases
Stuart Trosper
P.O. Box 907
Corpus Christi, Texas 78403

39. Was Notice Given Before Plugging to Each of the Above?
Yes

FILL IN FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical / Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log Attached ☐ Log released to No Log Run Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

* No Log Run

41. Date FORM P-8 (Special Clearance) Filed?
No

42. Amount of Oil produced prior to Plugging None bbls *

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS * Well on Plug Log Twisted off drill pipe & Fished for 8 days permitted 3A well and Rig moved 20' and redrilled the well.
NO L-1/Log attached. Log Desk notified for enforcement

07733-250

Cementer: Fill in shades areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1. Operator's Name (As shown of Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.,	4. County of Well Site
Mego Resources, LLC	559362	02	Bee

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
WILDCAT	42- 025-33163	691279

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
SASSER	—	—	3

CASING CEMENT DATA:		SURFACE	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		03/12/1031					
13. • Drilled hole size		11					
• Est. % wash or hole enlargement		20%					
14. Size of casing (in. O.D.)		8 5/8's					
15. Top of liner (ft.)		N/A					
16. Setting Depth		800					
17. Number of centralizers used		6					
18. Hrs. Waiting on cement before drill out		8					
1st Slurry — 19. API cement used: No. of sacks		190					
1st Slurry — Class		A					
1st Slurry — Additives		Salt, Gel, Poz					
2nd Slurry — No. of sacks		120					
2nd Slurry — Class		A					
2nd Slurry — Additives		CaCl2					
3rd Slurry — No. of sacks							
3rd Slurry — Class							
3rd Slurry — Additives							
1ST — 20. Slurry pumped: Volume (cu.ft.)		439					
1ST — Height (ft.)		1064					
2ND — Volume (cu.ft.)		144					
2ND — Height (ft.)		326					
3RD — Volume (cu.ft.)							
3RD — Height (ft.)							
Total — Volume (cu.ft.)		583					
Total — Height (ft.)		1390					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing		YES					

RECEIVED
RRC OF TEXAS
APR 20 2010
OIL & GAS DIVISION
SAN ANTONIO, TX

22. Remarks: Arrow Drilling Sasser #3, Bee Co. 8 5/8" Surface csg.

1070

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type of cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code that I am authorized to make this certification,, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed me by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

TONY CANO – CEMENTER
Name and title of cementer's representative

BJ SERVICES
Cementing Company

Tony Cano
Signature

411 HARTMAN RD. VICTORIA, TX. 77905
Address City, State, Zip Code

(361) – 575 – 6446
Tel.: Area Code Number

03/12/2010
Date: mo day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct,, and complete, to the best of my knowledge. This certification covers all well data.

Bob Mitchell
Typed or printed name of operator's representative

Managing Partner
Title

Bob Mitchell
Signature

1229 FM 889 George West, TX 78022
Address City, State, Zip Code

361-449-3178
Tel.: Area Code Number

4/26/10
Date: mo day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing Cementing, Drilling and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by The Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper that 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be place every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirments of Statewide Rule 13. In written application, an operator must state the reason for the requested exception and outline an alternate program for casing through the production depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An opeator must obtain approval of any exception before beginning casing and cementing operationsl

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

API No. 42-025-33703
Drilling Permit # 691279
SWR Exception Case/Docket No.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

FORM W-1 07/2004

Permit Status: Approved

1. RRC Operator No.	2. Operator's Name (as shown on form P-5, Organization Report)	3. Operator Address (include street, city, state, zip):
559362	MEGO RESOURCES, LLC	1229 FM 889 GEORGE WEST, TX 78022

4. Lease Name	5. Well No.
SASSER	3

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [ ] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth: 5400

9. Do you have the right to develop the minerals under any right-of-way ? [X] Yes [ ] No

10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? [ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.: 02

12. County: BEE

13. Surface Location [X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 10 miles in a NE direction from SKIDMORE which is the nearest town in the county of the well site.

15. Section	16. Block	17. Survey	18. Abstract No.	19. Distance to nearest lease line:	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
		ROACHE, G	A-59	1176.8 ft.	5300

21. Lease Perpendiculars: 1176.8 ft from the SW line and 2708.2 ft from the NW line.

22. Survey Perpendiculars: 11200 ft from the NE line and 525 ft from the SE line.

23. Is this a pooled unit? [ ] Yes [X] No

24. Unitization Docket No:

25. Are you applying for Substandard Acreage Field? [ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	00004001	WILDCAT	Oil or Gas Well	5400	0.00	1
02	52285166	LAURA THOMSON (4850)	Gas Well	4853	0.00	1
02	52285150	LAURA THOMSON (4700)	Gas Well	4704	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks

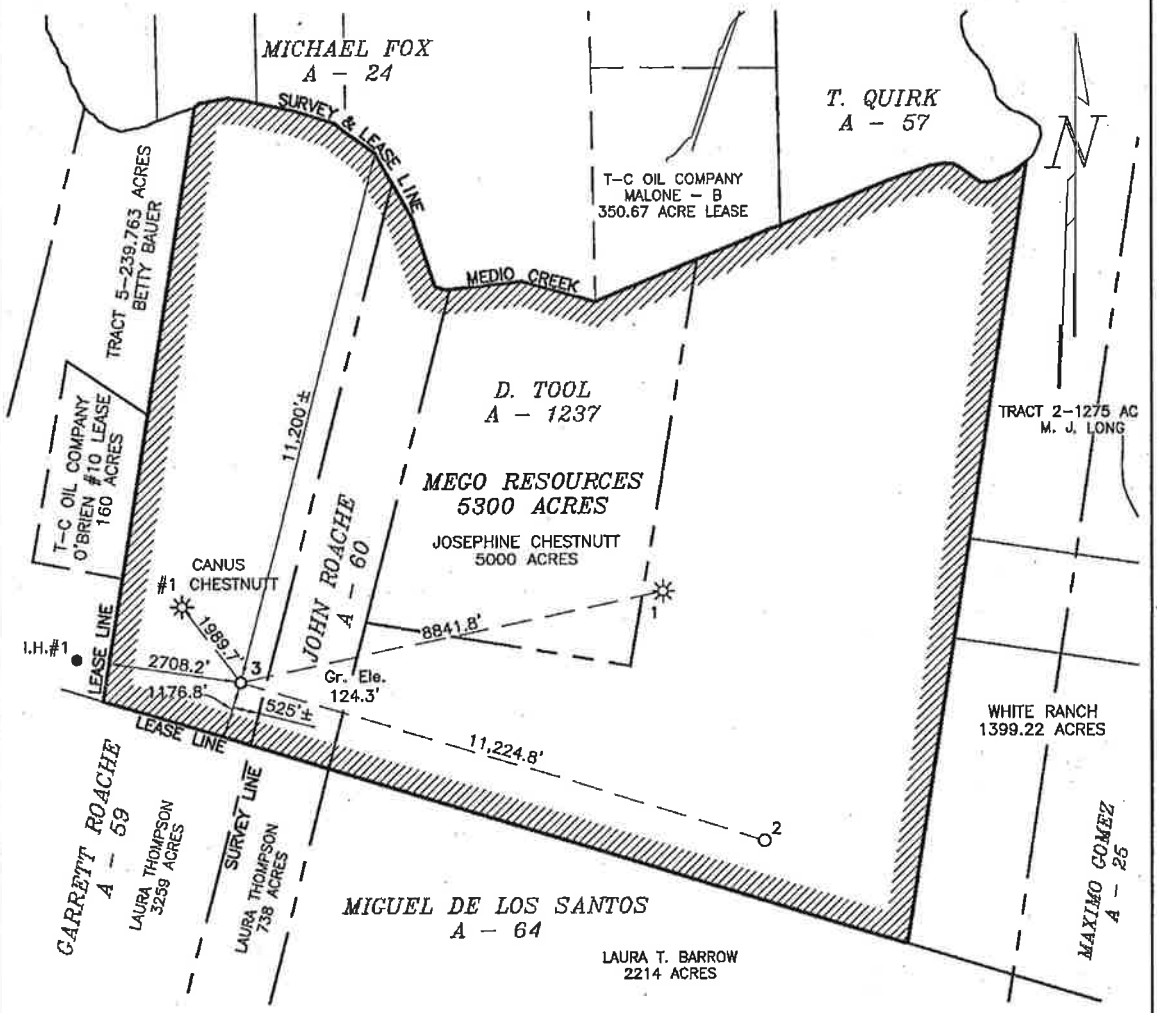
[RRC STAFF Feb 16, 2010 9:35 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Feb 16, 2010 4:49 PM]: Problems identified with this permit are resolved.

Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

Michael Hoffman — Name of filer
Feb 12, 2010 — Date submitted
(512)4783456 — Phone
michael@milconinc.com — E-mail Address (OPTIONAL)

RRC Use Only Data Validation Time Stamp: Feb 17, 2010 9:33 AM('As Approved' Version)



MEGO RESOURCES – SASSER – WELL NO. 3 X: 2474930.00, Y: 174270.00 NAD 27, Texas South Central Zone. Is located 2708.2' from the west lease line and 1176.8' from the south lease line, and 525'± from the east survey line and 11,200'± from the north survey line and lease line.

Location is approximately 10 miles northeast of the town of Skidmore.

There may be existing pipelines not shown on this plat. Use the Texas One Call System to locate pipelines before performing any excavation on this property.

PLAT SHOWING LOCATION MADE FOR
MEGO RESOURCES
SASSER – WELL NO. 3
OUT OF THE
GARRETT ROACHE SURVEY, ABSTRACT 59
BEE COUNTY, TEXAS
SCALE 1" = 3000 FEET

This plat meets the requirements for filing a well location plat with the Texas Railroad Commission and is intended solely for that purpose. This plat is not intended to represent a boundary survey and does not meet the requirements for boundary surveys in the State of Texas, Prepared this the 7th day of January, 2010.
Revised: February 12, 2010

King & Petrus, Inc.
P. O. Box 606
Sinton, Texas 78387
Phone 361–364–2622
Fax 361–364–2641
C:\DCF\20000\20089
C:\MAPDATA\DATA\WHITING\WAS

STATE OF TEXAS
REGISTERED
J. L. PETRUS JR.
1907
PROFESSIONAL
LAND SURVEYOR

J. L. Petrus Jr.

Registered Prof. Land Surveyor
Registration No. 1907

MAP ID #32

API# 42-025-33714
GAS WELL
PLUGGED

(32)

Received
RRC of Texas
SEP 10 2012
San Antonio, Texas

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION — Oil & Gas Division

FORM W-3
Rev. 12/92 (99)

API No. (if available)	1 RRC District
42-025-33714	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or ID Number: 257649

2 FIELD NAME (as per RRC records)	3 Lease Name	5. Well Number
BURKES RIDGE (1600)	SASSER	3-A
6 OPERATOR	**6a Original Form W-1 filed in name of**	**10 County**
MEGO RESOURCES, LLC	Mego Resources, LLC	BEE
7 ADDRESS	**6b Any subsequent W-1's filed in name of**	**11. Date Drilling Permit Issued**
1229 FM 889, GEORGE WEST, TX 78022		8/25/10 03-22-10

8 Location of well, relative to nearest lease boundaries of lease on which this well is located: 1,182.7 feet from SW line and 2,728 feet from NW line of the SASSER lease

12 Permit Number: 693203

9a. SECTION, BLOCK and SURVEY	9b Distance and direction from nearest town in this county	13 Date Drilling Commenced
G. LOACHE A-59	10 Miles NE Kildare, TX	3/2/10

16 Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no.'s	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14 Date Drilling Completed
O	5,350					4/5/10 08-10 10
18. If gas, amt. of cond on hand at time of plugging: N/A						15 Date Well Plugged: 08/07/12

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	08/07/12							
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8							
21 Depth to Bottom of Tubing or Drill Pipe (ft.)	1469							
*22 Sacks of Cement Used (each plug)	50							
*23. Slurry Volume Pumped (cu. ft.)	57.5							
*24. Calculated Top of Plug (ft.)	0							
25. Measured Top of Plug (if tagged) (ft.)	NO							
*26 Slurry Wt. # / Gal	15.8							
*27 Type Cement	H							

RECEIVED RRC OF TEXAS SEP 17 2012 OIL & GAS WELL COMPLIANCE AUSTIN, TX

28 CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (In.)
8 5/8	24	826	826	12 1/4
2 7/8	6.5	5,300	5,300	7 7/8

29 Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4,761	TO	4,767	FROM	3,572	TO	3,575
FROM	4,792	TO	4,798	FROM	2,734	TO	2,742
FROM	5,024	TO	5,029	FROM	1,541	TO	1,543
FROM	4,332	TO	4,337	FROM	1,468½	TO	1,469½
FROM	3,769	TO	3,772	FROM		TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Kevin L Bass
Signature of Cementer or Authorized Representative

B&S SERVICES, INC.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY — Manager TITLE — 9/6/12 DATE — PHONE 361 449-3178 A/C NUMBER

Caiux 9/14/12
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

(17)

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? ☑ Yes ☐ No — Cement

32. How was mud applied? 2⅞ Connected Tbg to Bottom w/Coil Tubing

33. Mud Weight 15.8 LBS/GAL — Cement

34. Total Depth 5350 — Depth of Deepest Fresh Water 1350

Other Fresh Water Zones by T D.W.R.

TOP	BOTTOM

35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☑ Yes ☐ No

36. If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well: B&S Services P.O. Box 907 Beeville, Texas 78120 — Date RRC District Office notified of plugging: 8/6/12

38. Name(s) and address(es) of surface owners of well site:
Stuart Jasser
P.O. Box 907
Corpus Christi, Texas 78403

39 Was notice given before plugging to the above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42 Amount of oil produced prior to plugging _____ bbls *
File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS B&S pumped the Cement / Copperhead Coil Tubing used to load the hole.

Type or print only

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

ORIGINAL

Form G-1
Rev. 4/1/83

483-047

API No. 42- 025-33714

7. RRC District No. 2

8. RRC Gas ID No. 257649

Gas Well Back Pressure Test, Completion or Recompletion Report and Log

RECEIVED
RRC OF TEXAS
SEP 01 2010
OIL & GAS DIVISION
SAN ANTONIO, TX

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (1600)

2. LEASE NAME: Sasser

9. Well No.: 3-A

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): MEGO Resources, LLC

RRC Operator No.: 559382

10. County of well site: Bee

4. ADDRESS: P. O. Box 1486, George West, Texas 78022

Purpose of filing:
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): G. Ronche A-59

5b. Distance and direction to nearest town in this county.: 10 Miles NE Skidmore, Tx

6. If operator has changed within last 60 days, name former operator: N/A

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

13. Pipe Line Connection: Truckline

14. Completion or recompletion date: 8/10/10

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16. Type of Electric or other Log Run.: Triple Combo

Section I — GAS MEASUREMENT DATA

Date of Test: 08/19/10

Gas Measurement Method (Check One): Orifice Meter [X] Flange Taps [X] Pipe Taps [ ] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 474 MCF

Run No.	Line Size	Orif or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Gas Rate MCF / DAY
1	3.068	0.500	1566.76	315	30.00	76	0.9850	1.0323	1.0204	158
2										
3										
4										

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydrocarbon Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.5630	---- Deg. API	Dry CF/Bbl	G_{mix} = 0.5630	88 °F	102 °F @ 1542 ft (Depth)

$(D_{eff})^{8/3}$ = 10.802

$\sqrt{T_f} = \sqrt{551} =$ 23.47

$\sqrt{GL} = \sqrt{868.146} =$ 29.464

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = 1118 \times 10.802 / 23.47 = 514.482$

$\frac{\sqrt{GL}}{C} =$ 29.464 / 514.482 = 0.0573

Run No.	Time of Run Minutes	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w / P_1
Shut-In	24 hrs	SI	695	74	483.0	0.0	0.0000	695	1.0000
1	4320	6/64	665	80	442.2	9.1	0.0820	665	1.0000
2									
3									
4									

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (Thousands)	$P_f^2 - P_s^2$ (Thousands)	Angle of Slope
Shut-In	1.0000	0.0297	1.0862	1.0328	718	516		Θ = 45.00°
1	1.0000	0.0295	1.0805	1.0324	687	472		n = 1.0000
2								
3								Absolute Open Flow
4								1,869 MCF / DAY

RECEIVED
CENTRAL RECORDS
OCT 27 2010
AUSTIN, TEXAS

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised the test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester — Name of Company: Mego Resources, LLC — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: Operator's representative — Title: Managing Partner — Date: 8/30/10 — Tel: A/C 361-449-3178 Number

VALID PERMIT

OCT 14 2010

Section III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [✓] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE: 3/22/10 — PERMIT NO.: 693203
Rule 37 Exception — CASE NO.:
Water Injection Permit — PERMIT NO.:
Salt Water Disposal Permit — PERMIT NO.:
Other — PERMIT NO.:

19. Notice of Intention to Drill this well was filed in the Name of: Mego Resources LLC

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5400

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 3/28/10 — Completed 8/10/10

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1182.7 Feet From NW Line of the — and 2,728 Feet From SW Line of the STASSER Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 124.3

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [✓] No

27. Top of Pay:

28. Total Depth: 5,350

29. P. B. Depth: 2630

30. Surface Casing Determined by: Field Rules [ ] — Recommendation of T.D.W.R. [ ] — Railroad Commission (Special) [✓] — Dt. of Letter: 3/26/10

31. Is well multiple completion? [ ] Yes [✓] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-O Gas-G	Well #

33. Intervals Drilled by: Rotary Tools [✓] Cable Tools [ ]

34. Name of Drilling Contractor: Arrow Drilling

35. Is Cementing Affidavit Attached? [ ] Yes [✓] No

36. CASING RECORD (Report All Strings Set In Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
2.875"	6.5	5,300	—	CLASS A&H	7 7/8	Surface	2,167
8 5/8	24	826	—	CLASS A	12 1/4	Surface	583

37. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen
N/A				

38. TUBING RECORD

Size	Depth Set	Packer Set
2 7/8	5,300'	Tubinglass

39. Producing Interval (this completion) indicate depth of perforation or open hole

From	1541 ft	To	1543 ft (MD)
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
Confined Columns /	
2736-42 Bridge Plug @ 2,650' w/ 20' Cement	4761-67 Bridge Plug @ 4,700' w/ 20' Cement
3572-75 Bridge Plug @ 3,500' w/ 20' Cement	4792-98 Bridge Plug @ 4,785 w/ 20' Cement
3759-72 Bridge Plug @ 3,870 w/ 20' Cement	5024-29 Bridge Plug @ 4,985 w/ 20' Cement
4332-37 Bridge Plug @ 4,300' w/ 20' Cement	

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS:

Type or Print only
483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

ORIGINAL

API No. 42-025-33714

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat) Wildcat Burkes Ridge (1600)	2. LEASE NAME Sasser
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) Mego Resources, LLC	RRC Operator No. 559362
4. ADDRESS 1229 FM 889 George West, Texas 78022	
5. Location (Section, Block, and Survey) G Roache A-59	5b. Distance and direction to nearest town in this county 10 Miles NE Gilmore, TX
6. If operator has changed within last 60 days, name former operator N/A	12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil-O Gas-G / Well #
13. Pipe Line Connection Trunkline	
14. Completion or recompletion date	15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☑ No
	16. Type of Electric or other Log Run. Triple Combo

7. RRC District No. 02
8. RRC Gas ID No. 257649
9. Well No. 3A
10. County of well site Bee
11. Purpose of filing
- Initial Potential ☐
- Retest ☐
- Reclass ☐
- Well record only (Explain in remarks) ☑

Section I

GAS MEASUREMENT DATA

Date of Test | Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ | Positive Choke ☐ | Orifice Vent Meter ☐ | Pitot Tube ☐ | Critical-flow Prover ☐ | Gas production during test MCF

Run Size	Line Size	Orif. or Choke Size	24 hr Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1										
2										
3										
4										

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RRC OF TEXAS
MAY 20 2010
OIL & GAS DIVISION
SAN ANTONIO, TX

Section II

FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas) | Gravity Liquid Hydrocarbon Deg API | Gas-Liquid Hydro Ratio CF/Bbl | Gravity of Mixture G_{mix}= | Avg. Shut-in Temp. °F | Bottom Hole Temp. °F@ (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\quad}$ = $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = $\frac{\sqrt{GL}}{C}$ = ____ = ____

Run No.	Time of Run Min.	Choke Size	Wellhead Press. P_W PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_t	P_W/P_t
Shut-In									
1									
2									
3									
4									

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O&G
AUSTIN, TX

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f^2 and P_s^2 (Thousands)	$P_f^2 - P_s^2$ (Thousands)	Angle of Slope
Shut-In							θ . . . . .
1							n . . . . .
2							Absolute Open Flow
3							. . . . . MCF/DAY
4							

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec.91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester | Name of Company | RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec.91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: Operator's representative	Title	Date	Tel: A/C Number
J.E. Mitchell	Managing Partner	5/18/10	361-649-5800

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well ☑ Deepening ☐ Plug Back ☐ Other ☐

18. Permit to Drill Plug Back or Deepen — DATE 3/22/10 — PERMIT NO. 693203
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: Mego Resources, LLC

20. Number of producing wells on this lease in this field (reservoir) including this well:

21. Total number of acres in this lease: 5300

22. Date Plug Back, Deepening Workover or Drilling Operations: Commenced 3/28/10 Completed 4/8/10

23. Distance to nearest well, Same Lease & Reservoir:

24. Location of well, relative to the nearest lease boundaries of lease on which this well is located: 1,182.7 Feet From SW Line and 2,728 Feet From NW Line of the SASSER Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 124.3

26. Was directional survey made other than inclination (Form W-12)? ☐ Yes ☑ No

27. Top of Pay:

28. Total Depth: 5,350

29. P.B. Depth:

30. Surface Casing Determined by: Field Rules ☐ Recommendation of T.D.W.R. ☐ Railroad Commission (Special) ☑ Dt. of Letter Dt. of Letter 3/26/10

31. Is well multiple completion? ☐ Yes ☐ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-O Gas-G	Well #

33. Intervals Drilled by: Rotary Tools Cable Tools

34. Name of Drilling Contractor: Arrow

35. Is Cementing Affidavit Attached? ☑ Yes ☐ No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT#/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	826	—	310 Class A	12 1/4	Surface	583
2 7/8	6.5	5,300	—	1220 A/Poz/A H	7 7/8	Surface	2,167

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen
N/A				

38. TUBING RECORD

Size	Depth Set	Packer Set

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS: Well has not been completed yet.

no perfs
not workable
per Turner.

WildCAT

Received
RRC of Texas
MAY 11 2010
Oil & Gas Division
San Antonio, Texas

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Wildcat	2. LEASE NAME: Sassser #3A
3. OPERATOR: Mego Resources, LLC	4. ADDRESS: 1329 FM 889 George West, Texas 78022
5. LOCATION (Section, Block, and Survey): Garrett Roache Survey A-59	6. RRC District: 02
7. RRC Lease Number. (Oil completions only): NA	8. Well Number: 3A
9. RRC Identification Number (Gas completions only): NA	10. County: Bee

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
480	4.8	.25	..044	2.15	2.15
1470	9.81	.25	.044	4.32	6.47
2400	9.30	.50	.087	4.09	10.56
3315	9.15	.50	.087	7.96	18.52
4305	9.90	.50	.087	8.61	27.13
5300	9.95	.50	.087	8.65	35.78

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 5350 feet = 35.78 feet.

*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 500 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Signature of Authorized Representative

Victor Reynolds Vice President
Name of Person and Title (type or print)

Arrow Drilling Company, Inc.
Name of Company

Telephone: 361-643-0200
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Signature of Authorized Representative

Bob Mitchell
Name of Person and Title (type or print)

Mego Resources, LLC
Operator

Telephone: 361 449-3178
Area Code

Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: _____

* Designates items certified by company that conducted the inclination surveys.

Cementer: Fill in shades areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.,	4. County of Well Site
Mego Resources, LLC	559367	02	Bee

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Wildcat	42-025-33714	693203

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Oil & Gas Division
San Antonio, Texas

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
9. SASSER	10.		12. 3A

CASING CEMENT DATA:	SURFACE	INTER-MEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
12. Cementing Date	3-28-10				3/23/10	
13. • Drilled hole size	12¼					
• Est. % wash or hole enlargement	20%					
14. Size of casing (in. O.D.)	8 5/8"					
15. Top of liner (ft.)	N/A					
16. Setting Depth	826					
17. Number of centralizers used	6					
18. Hrs. Waiting on cement before drill out	8					
19. API cement used: 1st Slurry — No. of sacks	190					
1st Slurry — Class	A					
1st Slurry — Additives	15:85(FA:A)+SALT+BENTONITE					
2nd Slurry — No. of sacks	120					
2nd Slurry — Class	A					
2nd Slurry — Additives	2%CACL2					
3rd Slurry — No. of sacks						
3rd Slurry — Class						
3rd Slurry — Additives						
20. Slurry pumped: 1ST — Volume (cu.ft.)	439					
1ST — Height (ft.)	1063.7					
2ND — Volume (cu.ft.)	144					
2ND — Height (ft.)	349					
3RD — Volume (cu.ft.)						
3RD — Height (ft.)						
Total — Volume (cu.ft.)	583					
Total — Height (ft.)	1412.7					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing	YES ✓					

WATER BOARD LETTER DATED
Depth 0-8(SD)-7350 ft.
13(A) Exception Dated 3/26/10
Surface Casing 826 ft.
D. V. @ N/A Ft.

22. Remarks

ARROW SASSER # 3A 1001590464

Bee Co. 8 5/8" Surface csg.

1070

PM
5-20-10

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type of cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed me by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

WESLEY LONG--CEMENTER — Name and title of cementer's representative

BJ SERVICES — Cementing Company

Signature

411 HARTMAN RD. VICTORIA, TX. 77904 — Address, City, State, Zip Code

(361) – 575 – 6446 — Tel.: Area Code Number

03-28-10 — Date: mo day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct,, and complete, to the best of my knowledge. This certification covers all well data.

Bob Mitchell — Typed or printed name of operator's representative

Managing Partner — Title

Signature

1219 FM 889 George West, TX 78022 — Address, City, State, Zip Code

361 - 449-3178 — Tel.: Area Code Number

5/6/10 — Date: mo day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing Cementing, Drilling and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by The Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth.. Surface casing should not be set deeper that 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be place every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirments of Statewide Rule 13. In written application, an operator must state the reason for the requested exception and outline an alternate program for casing through the production depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An opeator must obtain approval of any exception before beginning casing and cementing operations!

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

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MAY 11 2010
Oil & Gas Division
San Antonio, Texas

Cementer: Fill in shaed areas.
Operator: Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Divsion

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Mego Resources	559362	02	*Bee*

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Wildcat	42-025-33714	693-203

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
Sasser 3A			*3A*

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				04/07/10			
13. ●Drilling hole size				7 7/8			
●Est. % wash or hole enlargement				25%			
14. Size of casing (in. O.D.)				2 7/8			
15. Top of liner (ft.)				—			
16. Setting depth (ft.)				5,300			
17. Number of centralizers used				70			
18. Hrs. waiting on cement before drill-out				8			
1st Slurry	19. API cement used: No. of sacks			688			
	Class			15/85 Poz/A			
	Additives			See Remarks			
2nd Slurry	No. of sacks			532			
	Class			50/50 Poz/H			
	Additives			See Remarks			
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)			1488			
	Height (ft.)			4447			
2nd	Volume (cu. ft.)			679.4			
	Height (ft.)			850			
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)			2167.4			
	Height (ft.)			5297			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

1st Slurry: 688 sx 15:85 Poz:A + 8%D020(BWOB) + 3%D044(BWOW) + 0.2%D046(BWOB) + 0.4%D13(BWOB)+.25ppgD029(BWOB)
2nd Slurry: 532sxs50/50PozH+2%D020+6%D044+0.2%D46+.15%D13+.25ppgD029

5-20-10

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Johny Tijerina	Dowell Schlumberger	Johny Tijerina	
Name and title of cementer's representative	Cementing Company	Signature	
1126 Airport Rd	Alice, Texas 78332	(361) 664-3458	April 7, 2010
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Bob Mitchell	Managing Partner	Bob Mitchell	
Typed or printed name of operator's representative	Title	Signature	
1229 FM 889	George West, Texas 78022	361-449-5800	5/6/10
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's State Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Schlumberger

Company: **MEGO RESOURCES LLC**

Well: **SASSER #3A**
Field: **WILDCAT**
County: **BEE** State: **TEXAS**

*** PLATFORM EXPRESS ***
ARRAY INDUCTION / GAMMA RAY / COMPENSATED NEUTRON / LITHODENSITY

MAY 11 2010
Oil & Gas Division
San Antonio, Texas

County: BEE
Field: WILDCAT
Location: 11200' FNEL & 500' FSEL
Well: SASSER #3A
Company: MEGO RESOURCES LLC

LOCATION
11200' FNEL & 500' FSEL
Roache, G Survey A-59
10 miles NE from Skidmore

Elev.: K.B. 133.40 ft
G.L. 123.40 ft
D.F. 132.40 ft

Permanent Datum: GROUND LEVEL Elev.: 123.40 ft
Log Measured From: KELLY BUSHING 10.00 ft above Perm. Datum
Drilling Measured From: KELLY BUSHING

API Serial No.	X:	Y:	Rig:
042-025-33714	2474950	174270	Arrow # 5

Logging Date			5-Apr-2010					
Run Number			ONE					
Depth Driller			5350 ft					
Schlumberger Depth			5352 ft					
Bottom Log Interval			5344.1 ft					
Top Log Interval			848 ft					
Casing Driller Size @ Depth			8.625 in @ 857 ft				@	
Casing Schlumberger			848 ft					
Bit Size			7.875 in					
Type Fluid In Hole			Carbonox / Quik-Thin					
MUD Density	Viscosity		10.1 lbm/gal	47 s				
MUD Fluid Loss	PH		5.6 cm3	9.6				
MUD Source Of Sample			MUD PITS					
RM @ Measured Temperature			0.905 ohm.m @ 79 degF				@	
RMF @ Measured Temperature			0.724 ohm.m @ 79 degF				@	
RMC @ Measured Temperature			1.086 ohm.m @ 79 degF				@	
Source RMF	RMC		CALCULATED	CALCULATED				
RM @ MRT	RMF @ MRT		0.504 @ 148	0.403 @ 148		@		@
Maximum Recorded Temperatures			148 degF					
Circulation Stopped	Time		5-Apr-2010		15:00			
Logger On Bottom	Time		5-Apr-2010		22:06			
Unit Number	Location		2126	VICTORIA, TX				
Recorded By			CHRIS KLEIN					
Witnessed By			BOB MITCHELL					

MAP ID #33

API# 42-025-30216
GAS WELL
PLUGGED

42 00052022600

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Plugging Record

Form W-3
Rev. 7/7/75

(33)

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 02

4 RRC Lease or Id. Number: 06339

2. FIELD NAME (as per RRC Records): BURKES RIDGE (1850)

3. LEASE NAME: SAMUEL DENVER CHESTNUTT

5. Well Number: 1

6. OPERATOR: EXXON CORPORATION

10 County: BEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78476

11. Date Drilling Permit Issued: 5-25-73

8. SURFACE LOCATION: 467 FEET FROM SW LINE, AND 2650 FEET FROM NW LINE

12. Date Drilling Commenced: 6-5-73

9a. SECTION, BLOCK, AND SURVEY: GARRETT ROACHE SUR (A-39)

9b. Distance and Direction to nearest town in this county: 10 mi. ENE of SKIDMORE

13. Date Drilling Completed: 6-9-73

15. Type of Well (Oil, Gas, Dry)*: GAS

16. Type of Completion (Single, Dual, Etc.): SINGLE

17. Total Depth: 4900

14. Date Well Plugged: 12-9-77

18. FORM W-1 (Intention to Drill) Filed in Name of: EXXON CORPORATION

19. Manner of Placement

PLUG #1	11	SACKS	TOP 1459	BOTTOM 1295	TYPE CLASS H
PLUG #2	50	SACKS	TOP 1305	BOTTOM 1105	TYPE CLASS H
PLUG #3	14	SACKS	TOP 5	BOTTOM 60	TYPE CLASS H
PLUG #4		SACKS	TOP	BOTTOM	TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? PUMPED

22 Mud Weight: 9.J LBS/GAL

23. Depth of Deepest Fresh Water: 1300 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25. If NO, Explain

26. Name and Address of Party Plugging Well: SPARTAN WELL SERVICE, P.O. BOX 1496, CORPUS CHRISTI, TX 78403

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8-5/8	1355		1350	
2-7/8	2904		2899	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

NONE

29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report; that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — REPRESENTATIVE OF COMPANY

GRADY COYLE — PRORATION SPECIALIST — TITLE

FEB 21 1978 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R.R.C. OF TEXAS
FEB 24 1978
OIL
SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

025 30216

0 0 0 0 5 2 0 2 2 6 1

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Barkes Ridge Laura Thompson Field	*2. RRC District #2
*3. Operator Exxon Company USA	*4. County Refugio
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Samuel Denver Chestnutt	*6. Well Number #1
*7. Location (Section, Block, and Survey)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry		FEB 21 1978				
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	12-8-77	12-8-77	12-9-77			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8	2-7/8	2-7/8			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1795'	1405'	60'			
22. Sacks of Cement Used (each plug)	11	50	14			
23. Slurry Volume Pumped (cu. ft.)	12.1	55.0	15.4			
24. Calculated Top of Plug (ft.)	1459'	1305'	05'			
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED R.R.C. OF TEXAS FEB 24 1978 OIL AND GAS DIV. TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:	*27. Remarks:
2nd plug squeezed with 50 sks., 39 sks. in tbg. and 11 sks. into formation. Perforated @ 1405'.	

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Rodney Johnson
Signature of Cementer or Authorized Representative

Rodney Johnson Agent
Name of Person and Title (type or print)

Spartan Well Service, Inc.
Cementing Company

PO Box 1496
Street Address or P.O. Box

Corpus Christi, Tex. 78403
City, State Zip Code

Telephone 512 883-1838
Area Code

February 14, 1978 COPY
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Brady Coyle
*Signature of Operator or Authorized Representative

BRADY COYLE CONSERVATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER
*Street Address or P.O. Box

CORPUS CHRISTI, TX 78476
*City, State Zip Code

*Telephone 512-884-4571
Area Code

FEB 21 1978
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing. (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 feet cement plug is required to be placed in the top of the well.

0 0 0 0 5 2 0 2 2 6 2

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

13551-700

AUG 01 1975

Form G-1
Rev. 7/5/66

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (as per RRC Records or Wildcat)	Burkes Ridge /1850/
2. LEASE NAME	Samuel Denver Chestnutt
3. OPERATOR	Exxon Corporation
4. ADDRESS	Wilson Tower, Corpus Christi, Texas 78401
5. If Operator has changed within last 60 Days — Give former Operator	
6. LOCATION (Section, Block, and Survey)	Garrett Roache Survey (A-59) 9 M. SW of [illegible]
12. Pipe Line Connection	Houston Pipe Line Company
13. If Workover, give former Field (with Reservoir)	Burkes Ridge /1900/
15. List of Offset Operators Notified and Date of Notification	
16. Type of Electric or other Log Run	Induction
7. RRC District	2
8. RRC Identification Number	60334
9. Well Number	1
10. County	Bee
11. Purpose of Test	Initial Potential [X] Retest [ ] Reclass [ ]
14. Completion Date	7-20-75

Section I — GAS MEASUREMENT DATA

Date of Test: 7-21-75

Gas Measurement Method (Check One): Orifice Meter [X] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 86 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	3.068	1.000	6341.17	285	76.0	70	.9905	1.0351	1.019	975
2				185	34.5	68	.9924	1.0351	1.012	527
3				155	24.5	68	.9924	1.0351	1.009	405
4				110	14.0	74	.9868	1.0351	1.005	255

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-In Temp.	Bottom Hole Temp
.560	--- Deg. API	Dry CF/Bbl	θ_{mix} = .560	91 °F	107 °F @ 1837' (Depth)

$D_{eff}^{8/3}$ = | $\sqrt{T_f}$ = $\sqrt{\ }$ = | $\sqrt{GL}$ = $\sqrt{\ }$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = | $\frac{\sqrt{GL}}{C}$ = _____ = _____

Run No.	Time of Run Min.	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	$P_w - P_l$
Shut-In	24 Hrs.		676	74					
1	90	16/64	646	78					
2	30	Adj.	666	78					
3	30	Adj.	671	78					
4	30	Adj.	675	78					

Run No.	F	K	$S = \frac{1}{n}$	e^{ks}	P_f and P_s	P_f^2 and P_s^2	$P_f^2 - P_s^2$
Shut-In					790	624	
1	Used Amerada				758	575	49
2	1" BHP Gage				773	598	26
3	2800# Element				775	601	23
4	Ser. No. 25902				780	608	16

Angle of Slope: θ = 45°, n = 1,000

Absolute Open Flow: 13,000 MCF/DAY

OPEN FLOW TEST:

Shut-In Press [illegible] Psig
Time Shut-In [illegible] Hrs.
Producing Through [illegible]

In H_2O Time	Reading	In Hg Time	Reading
15		25	
		30	

FESCO, Inc. [signature]
REPRESENTATIVE OF COMPANY MAKING TEST

[signature]
REPRESENTATIVE OF RAILROAD COMMISSION

CERTIFICATE:
I declare under penalties prescribed in Article 9010 [illegible] I am authorized to make this report, that this report [illegible] by me or under my supervision and direction [illegible] that data and facts stated therein are true, correct, and complete [illegible] the best of my knowledge.

[signature] GRADY COYLE
REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST
TITLE

RECEIVED
JUL 30 1975
SAN ANTONIO, TEXAS
DATE

ck NED 12-9-75 BDT

11-23-75

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18. Date Permit Issued 6-26-75

19. Notice of Intention to Drill this Well was filed in Name of EXXON CORPORATION

20. If Special Permit, Give Field & Well Number

21. Number of Producing Wells on this Lease in This Field (Reservoir) Including this Well 1

22. Total Number of Acres in this Lease 617.6

23. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 7-18-75 Completed 7-20-75

24. Distance to Nearest Well, Same Lease & Reservoir —

25. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 460 Feet From NW Line of the SAMUEL DEAKER (CHESTNUT) Lease And 2650 Feet From SW Line

26. Elevation (DF, RKB, RT, OR, ETC) 1260' GR.

27. Was Directional Survey Made: Yes ☐ No ☒

28. Top of Pay 1830

29. Total Depth 4900

30. P.B. Depth 1870

31. Surface Casing Determined By: Recommendation of Texas Water Development Board ☒ Field Rules ☐ Railroad Commission (Special) ☐

32. Is Well Multiple Completion? Yes ☐ No ☒

33. If Multiple Completion List All Reservoir Names

34. Intervals Drilled By: Rotary Tools X Cable Tools

35. Name of Drilling Contractor

36. Is Cementing Affidavit Attached? Yes ☒ No ☐

37. CASING RECORD (Report All Strings Set in Well)

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
2.5"	No Casing				

38. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

39. TUBING RECORD

Size	Depth Set	Packer Set

40. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From 1832 To 1842

From — To —

From — To —

From — To —

41. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
1914-1918	Set CIBP @ 1890' with 20' cement on top of plug.

42. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
SEE ORIGINAL			

REMARKS

AUG 01 1975

0 0 0 0 5 2 0 2 2 6 3

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-27-69)

R.R.C. OF TEXAS
AUG 01 1975

CEMENTING REPORT

(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) Burkes Ridge (Greta)	*2. RRC District 2
*3. Operator Exxon Corporation	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Samuel Denver Chestnut 64339	*6. Well Number 1
*7. Location (Section, Block, and Survey) Garrett Roache Sur. A-59	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING Single String	PRODUCTION CASING Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date	6-6-73		6-10-73			
*9. (a) Size of Drill Bit (inches)	11"		7 7/8			
(b) Estimated % Wash or Hole Enlargement Used in Calculations.	120%					
*10. Size of Casing (inches O.D.)	8-5/8" o.d.		2 7/8			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1,355		2904			
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	"A" 8% Gel. + 3% Salt.		*Remarks			
(b) In Second Slurry	Class 'A' + 2% $CaCl_2$		*REmarks			
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	250		230			
(b) In Second Slurry	150		200			
(c) In Third Slurry						
(d) Total Sacks of Cement Used	400		430			
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.23		1.81			
(b) In Second Slurry	1.18		1.39			
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	557.5		416			
(b) In Second Slurry	177.0		278			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	734.5		694			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	2,887		2,367			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes		Yes			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
JUL 30 1975

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

64339

26. Remarks: EXXON COMPANY, U.S.A. FORM W-15
S.D. Chesnutt #1 -- Bee County
Cement Plug Set @ 4900' with 60 sks. Class H prior to setting Production Casing.
PRODUCTION CASING:
13. (a) Lite-Gate, + 5% Salt.
(b) 1-1 TALC 'H', + 18% Salt, + 0.2% AF-2.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Terry L. Tripp

Signature of Cementer or Authorized Representative

Terry L. Tripp -- Service Supervisor

Name of Person and Title (type or print)

THE WESTERN COMPANY

Cementing Company

P. O. Box 4186

Street Address or P.O. Box

ROBSTOWN, TEXAS 78380

City, State Zip Code

Telephone 512 387-1523
Area Code

June 10, 1973

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

*Grady Coyle

*Signature of Operator or Authorized Representative

*Grady Coyle, Proration Specialist

*Name of Person and Title (type or print)

Exxon Corporation

*Operator

Wilson Tower

*Street Address or P.O. Box

*Corpus Christi, Texas 78401

*City, State Zip Code

*Telephone 512 884-4571
Area Code

June 27, 1973

*Date

- INSTRUCTIONS -

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

2-00-64339

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-1
(3-1-70)

API Well No. 42-

8

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: ☐ DRILL ☐ DEEPEN ☒ PLUG BACK ☐ OTHER (Specify)

1. Operator: Exxon Corporation
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78401
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES ☒ NO ☐
4. Lease Name: Samuel Denver Chestnutt
5. Location (Sec., Blk., Survey): Garrett Roache Survey (A-59)
6. This well is to be located 1.0 miles East Northeast Direction from Skidmore, Texas Nearest Post Office or Town.
7. RRC District: 2
8. County: Bee
9. Well Number: 1
10. Number of Acres in Lease: 617.6
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 467'

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing - Pattern (Distance to lease line & distance between wells. If no special rule, indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rule, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No, If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat Above 4900	4900	---	467 1200	40	40	No	---	Yes	Gas	---	---

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R. R. COMMISSION OF TEXAS
JUN 25 1975
SAN ANTONIO, TEXAS

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS: In Burke's Ridge Fld.

CERTIFICATE
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

Brady Coyle
Signature

Brady Coyle, Proration Specialist
Title

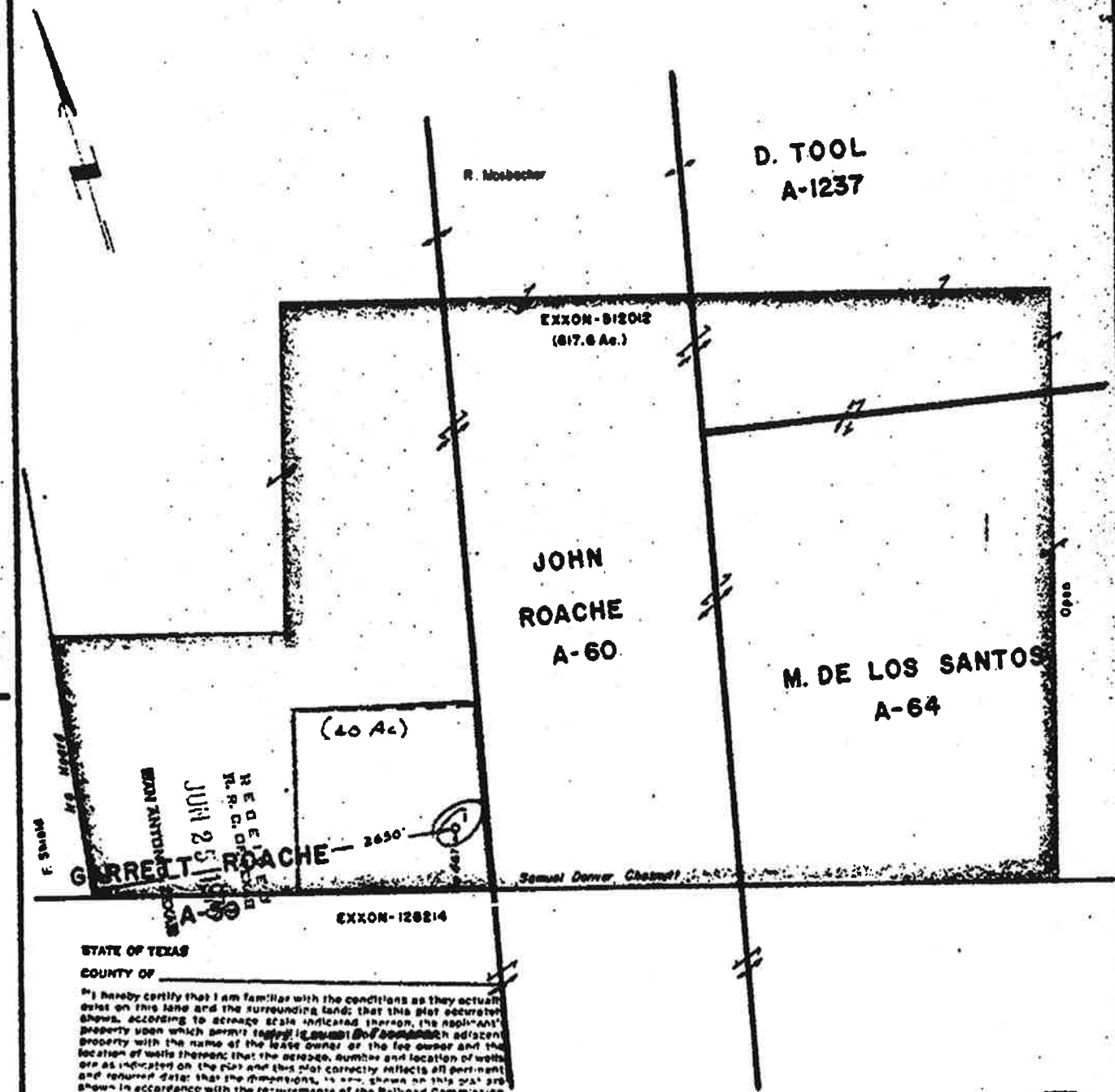
June 24, 1975
Date

Telephone: Area Code 512 8844-571

-OVER-

003532267

0 0 0 0 5 2 0 2 2 6 8



STATE OF TEXAS

COUNTY OF _____

"I hereby certify that I am familiar with the conditions as they actually exist on this land and the surrounding land; that this plat accurately shows, according to acreage scale indicated thereon, the applicant's property upon which permit [illegible] adjacent property with the name of the lease owner or the fee owner and the location of wells thereon; that the acreage, number and location of wells are as indicated on the plat and this plat correctly reflects all pertinent and required data; that the dimensions, to any, shown on this plat are shown in accordance with the requirements of the Railroad Commission of Texas for plats of this character in order to designate the areas included in the producing units into which such property is divided and for this purpose only; that the distances on the ground are to the best of affiant's knowledge and belief as great as, if not greater than the distances indicated on the plat, but such distances and lines are indicated without prejudice to the actual boundaries of the properties and the actual acreage included therein."

[signature]

Application For Location Well No. 1

EXXON CORPORATION

R.R. COMM.

SAMUEL DENVER CHESNUTT LSE. No. 512012

BURKES RIDGE FIELD BEE COUNTY, TEX.

~~HUMBLE OIL & REFINING COMPANY~~
PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

DRAWN LGS	ENGR. SECTION	REVISED	SCALE 1" = 1000'	JOB NO.	FILE NO.
CHECKED	APPROVED		DATE 5-8-73		SWT-A-3144

2-10-64339

0 0 0 5 2 0 2 2 7 1

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

NEW FIELD

Form G-1
Rev. 7/3/66

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

13551 800

1. FIELD NAME (Wildcat or Wildcat) — Burkes Ridge 1900
2. LEASE NAME — SAMUEL JENNER CHESNUTT
3. Well Number — 1
4. OPERATOR — Exxon Corporation
5. ADDRESS — Wilson Tower, Corpus Christi, Texas 78401
6. If Operator has changed within last 60 Days — Give former Operator
7. RRC District — 2
8. RRC Identification Number — 161845
9. County — Bee
10. Purpose of Test — Initial Potential [X] Retest [ ] Recless [ ]
11. LOCATION (Section, Block, and Survey) — GARRETT ROACHE SURVEY (A-57)
12. Pipe Line Connection — EXXON CORPORATION
13. If Workover, give former Field (with Reservoir) — BURKES RIDGE / GRETA
14. Completion Date — 1-22-75
15. List of Offset Operators Notified and Date of Notification
16. Type of Electric or other Log Run — NEUTRON

NFD 15
5-6-74

Section I — GAS MEASUREMENT DATA

Date of Test: 1-23-75
Gas Measurement Method (Check One): Orifice Meter [XX] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]
Gas produced during test: 63 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.900	.750	3542.26	130	63.5	69	.9915	1.0351	1.009	333
2				130	41.0	67	.9933	1.0351	1.010	269
3				130	28.0	67	.9933	1.0351	1.010	222
4				130	20.0	67	.9933	1.0351	1.010	188

3-25-75

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-In Temp.	Bottom Hole Temp.
.560	Dry Deg. API	--- CF/Bbl	G_{mix} .560	89 °F	104 °F @ 1916' (Depth)

$D_{eff}^{8/3}$ = ; $\sqrt{T_f}$ = $\sqrt{\quad}$ = ; $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \cdot (D_{eff})^{8/3}}{\sqrt{T}}$ = = ; $\frac{\sqrt{GL}}{C}$ = ____ = ____

Run No.	Time of Run Min.	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_t	P_w/P_t
Shut-In	24 Hrs.		573	74					
1	150	16/64	382	80					
2	60	Adj.	392	80					
3	60	Adj.	418	80					
4	60	Adj.	430	80					

Run No.	F.	K	$S = \frac{1}{n}$	gks	P_t and P_c	P_t^2 and P_c^2	$P_t^2 - P_c^2$
Shut-In					821	674	
1	Used	Amerada			640	410	264
2	1.25"	BHP Gage			674	454	220
3	4200#	Element			703	494	180
4	SN:	13476			725	526	148

Angle of Slope: θ = 45°
n = 1.000
Absolute Open Flow: 860 MCF/DAY

OPEN FLOW TEST: Rev. 5-1-74

Shut-In Press	Psig
Time Shut-In	Hrs.
Producing Through	
In. H_2O	In. Hg. Psig

Time	Reading	Time	Reading
15		25	
30		30	

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R.R.C. OF TEXAS
FEB 05 1975
OIL & GAS DIVISION

FESCO, Inc. John L. Bartlett
REPRESENTATIVE OF COMPANY MAKING TEST

REPRESENTATIVE OF RAILROAD COMMISSION

CERTIFICATE: I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — REPRESENTATIVE OF COMPANY
PRORATION SPECIALIST — TITLE
2-4-75 — DATE

W-1 to Neur Compl. eff. 4-1-75

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18. Date Permit Issued: 11-7-74

19. Notice of Intention to Drill this Well was filed in Name of: EXXON CORPORATION

20. If Special Permit, Give Permit Number:

21. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

22. Total Number of Acres in this Lease: 617.6

23. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 1-15-75 Completed 1-22-75

24. Distance to Nearest Well, Same Lease & Reservoir:

25. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 467 Feet From SW Line And 2650 Feet From NW Line of The SAMUEL DENVER CHESNUTT Lease

26. Elevation (DF, RKB, RT, GR, ETC): 126' GR

27. Was Directional Survey Made: Yes ☐ No ☒

28. Top of Pay: 1914

29. Total Depth: 4960

30. P.B. Depth: 2000

31. Surface Casing Determined By: Recommendation of Texas Water Development Board ☒ Field Rules ☐ Railroad Commission (Special) ☐

32. Is Well Multiple Completion? Yes ☐ No ☒

33. If Multiple Completion List All Reservoir Names:

34. Intervals Drilled By: Rotary Tools Cable Tools

35. Name of Drilling Contractor:

36. Is Cementing Affidavit Attached? Yes ☒ No ☐

37. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
7/8	No CHANGE				

38. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

39. **TUBING RECORD**

Size	Depth Set	Packer Set

40. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From	1914	To	1918
From		To	
From		To	
From		To	

41. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used
2754 - 2757	Set CIBP @ 2000'

42. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth
SEE	ORIGINAL		

REMARKS:

0 0 0 0 5 2 0 2 2 7 5

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-27-69)

CEMENTING REPORT

(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) Burkes Ridge (Greta)	*2. RRC District 2
*3. Operator Exxon Corporation	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Samuel Denver Chestnut	*6. Well Number 1
*7. Location (Section, Block, and Survey) Garrett Roache Sur. A-59	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	6-6-73		6-10-73			
*9. (a) Size of Drill Bit (inches)	11"		7 7/8			
(b) Estimated % Wash or Hole Enlargement Used in Calculations.	120%					
*10. Size of Casing (inches O.D.)	8-5/8" o.d.		2 7/8			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1,355		2904			
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	8% Gel. + 3% Salt.		*Remarks			
(b) In Second Slurry	Class 'A' + 2% $CaCl_2$		*REmarks			
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	250		230			
(b) In Second Slurry	150		200			
(c) In Third Slurry						
(d) Total Sacks of Cement Used	400		430			
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.23		1.81			
(b) In Second Slurry	1.18		1.39			
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	557.5		416			
(b) In Second Slurry	177.0		278			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	734.5		694			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	2,887		2,367			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes		Yes			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

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RCLC OF TEXAS
FEB 05 1975
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

2-ID-61815

26. Remarks: EXXON COMPANY, [redacted] S.D. Chesnutt #1 -- [redacted] County
Cement Plug Set @ 4900' with 60 sks. Class H prior to setting Production Casing.
PRODUCTION CASING:
13. (a) Lite-Wate, + 5% Salt.
(b) 1-1 TALC 'H', + 18% Salt, + 0.2% AF-2.

27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the plugging of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Terry L. Tripp
Signature of Cementer or Authorized Representative

Terry L. Tripp -- Service Supervisor
Name of Person and Title (type or print)

THE WESTERN COMPANY
Cementing Company

P. O. Box 4186
Street Address or P.O. Box

ROBSTOWN, TEXAS 78380
City, State Zip Code

Telephone 512 387-1523
Area Code

June 10, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

Grady Coyle, Proration Specialist
*Name of Person and Title (type or print)

Exxon Corporation
*Operator

Wilson Tower
*Street Address or P.O. Box

Corpus Christi, Texas 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

June 27, 1973
*Date

-- INSTRUCTIONS --

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 5, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-1
(3-1-70)

API Well No. 42

SPS APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: ☐ DRILL ☐ DEEPEN ☒ PLUG BACK ☐ OTHER (Specify)

1. Operator
Exxon Corporation

2. Address (Including City and Zip Code)
Wilson Tower
Corpus Christi, Texas 78401

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES ☒ NO ☐

4. Lease Name
Samuel Denver Chesnut

5. Location (Sec., Blk., Survey)
Garrett Roache Survey (A-59)

6. This well is to be located 1.0 miles East, NE Direction from Skidmore, Texas Nearest Post Office or Town.

7. RRC District
2

8. County
Bee

9. Well Number
1

10. Number of Acres in Lease
617.6

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.)
467'

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern (Acres. If no spec. rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No, If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat above 4900'	4900	--	467 1200	40	40	No	--	Yes	Gas	--	--

R.R.C. Of Tex
NOV 7 1974

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS:

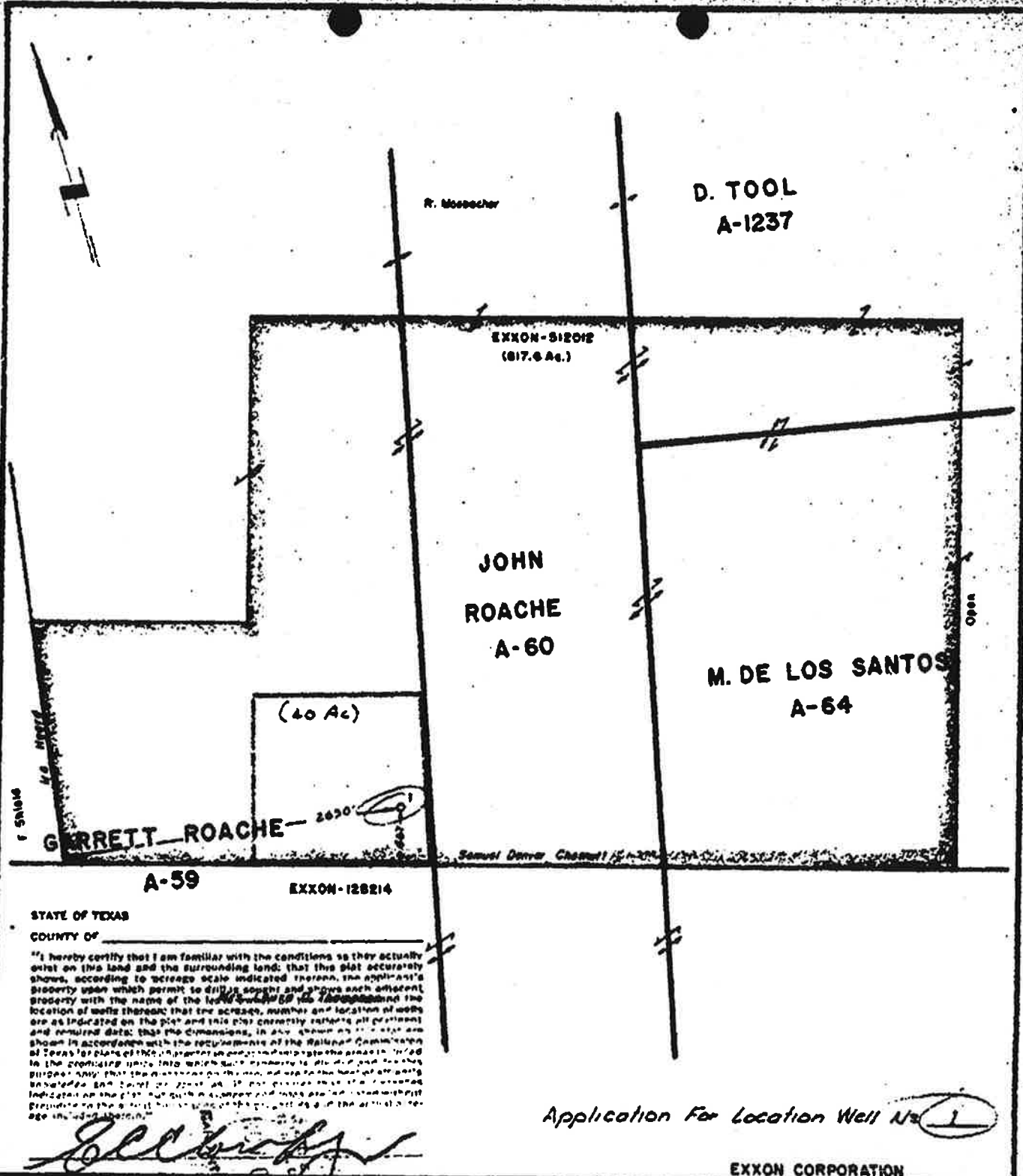
CERTIFICATE
I declare under penalties prescribed in Article 6036c, V. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

Signature Grady Coyle GRADY COYLE
Title Proration Specialist
Date November 4, 1974
Telephone: Area Code 512 884-4571

- OVER -

003522276

00005202271



STATE OF TEXAS

COUNTY OF _____

"I hereby certify that I am familiar with the conditions as they actually exist on this land and the surrounding land; that this plat accurately shows, according to acreage scale indicated thereon, the applicant's property upon which permit to drill is sought and shows each adjacent property with the name of the lease and the owner thereof; and the location of wells thereon; that the acreage, number and location of wells are as indicated on the plat and this plat correctly reflects all pertinent and required data; that the dimensions, in any shown as in this plat are shown in accordance with the requirements of the Railroad Commission of Texas; to place of the property or contemplated thereon to the property into which such property is to be [illegible] for the purpose; that the distances on the map, and as to the boundaries and corners of said property, is not greater than as indicated on the plat; and that all corners and boundaries are correctly shown on the plat; and that all wells are correctly shown on the plat; and that all wells are correctly shown on the plat; and that all wells

0 0 0 0 5 2 0 2 2 2 6

P. map. CR new Fld

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

~~New Field~~

Form G-1
Rev. 7/1/66

GAS WELL BACK PRESSURE TEST #13551 120
COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District: 2
8. RRC Identification Number: NJ 56082
9. Well Number: 1
10. County: Bee
11. Purpose of Test: Initial Potential [X] Retest [ ] Reclass [ ]
14. Completion Date: 6-20-73

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (Greta)
2. LEASE NAME: Samuel Denver Chesnutt
3. OPERATOR: Exxon Corporation
4. ADDRESS: Wilson Tower, Corpus Christi, Texas 78401
5. If Operator has changed within last 60 Days -- Give former Operator
6. LOCATION (Section, Block, and Survey): Garrett Roache Sur. A-59 8½ Mi N-NE of Papalote
12. Pipe Line Connection
13. If Workover, give former Field (with Reservoir)
15. List of Offset Operators Notified and Date of Notification
16. Type of Electric or other Log Run

Section I — GAS MEASUREMENT DATA

Date of Test: 6-20-73
Gas Measurement Method (Check One): Orifice Meter [XX] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]
Gas produced during test: 178 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.900	1.250	10082.50	315	57	55	1.0048	1.0333	1.025	1438
2				315	41.5	55	1.0048	1.0333	1.025	1227
3				305	24.7	55	1.0048	1.0333	1.025	931
4				300	11	55	1.0048	1.0333	1.025	616

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-In Temp.	Bottom Hole Temp.
.562	dry Deg. API	--- CF/Bbl	G_{mix} = .562	96 °F	118 °F @ 2755.5 (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\ }$ = $\sqrt{GL}$ = $\sqrt{\ }$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = $\frac{\sqrt{GL}}{C}$ = ____ = ____

Run No.	Time of Run Min.	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_i	P_w/P_i
Shut-In	24 hrs.		1022	74					
1	120	16/64	981	78					
2	30	Adj.	988	78					
3	30	Adj.	998	78					
4	30	Adj.	1006	78					

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2	$P_f^2 - P_s^2$
Shut-In					1127	1270	
1	Used Amerada				1082	1171	99
2	1" BHP Gage				1091	1190	80
3	2800# Element				1102	1214	56
4	Ser. No.: 25902-N				1113	1239	31

Angle of Slope: θ = 54.0°, n = .727
Absolute Open Flow: 9400 MCF/DAY

OPEN FLOW TEST:
Shut-In Press: Newwell, S. Paig
Time Shut-In: Hrs.
Producing Through
In. H_2O Time Reading | In. Hg. Time Reading | Paig
15 | 29
20 | 30

FESCO, Inc. Jerry Pruss
REPRESENTATIVE OF COMPANY MAKING TEST

JUN 1973
REPRESENTATIVE OF RAILROAD COMMISSION

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — REPRESENTATIVE OF COMPANY
Grady Coyle 025 — TITLE
Proration Specialist 50216 — DATE 6-27-73

2350 MCF/D 6-20-73

W-1 OK

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Date Permit Issued: 5-25-73

19. Notice of Intention to Drill this Well was filed in Name of: EXXON CORPORATION

20. If Special Permit, Give Permit Number:

21. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

22. Total Number of Acres in this Lease: 617.6

23. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 6-5-73 Completed 6-9-73

24. Distance to Nearest Well, Same Lease & Reservoir: ---

25. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 467 Feet From SW Line And 2650 Feet From NW Line of The Samuel Denver Chestnut Lease

26. Elevation (DF, RKB, RT, GR, ETC): 126' GR

27. Was Directional Survey Made: Yes [ ] No [X]

28. Top of Pay: 2754

29. Total Depth: 4900

30. P.B. Depth: 2990

31. Surface Casing Determined By: Recommendation of Texas Water Development Board [X] Field Rules [ ] Railroad Commission (Special) [ ]

32. Is Well Multiple Completion? Yes [ ] No [X]

33. If Multiple Completion List All Reservoir Names:

34. Intervals Drilled By: Rotary Tools X Cable Tools

35. Name of Drilling Contractor: Flournoy Drilling Co

36. Is Cementing Affidavit Attached? Yes [ ] No [X]

37. CASING RECORD (Report All Strings Set in Well)

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
8-5/8		1355	11	400 sx	
2-7/8		2904	7-7/8	430 sx	

38. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

39. TUBING RECORD

Size	Depth Set	Packer Set

40. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From 2754 To 2757
From To
From To
From To

41. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

42. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
SD, SH & CLAY	0-323		
SD & SH	323-4900		

REMARKS:

000005202230

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-27-69)

CEMENTING REPORT

(To be filed with each Form C-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat): Burkes Ridge (Greta)	*2. RRC District: 2
*3. Operator: Exxon Corporation	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Samuel Denver Chestnut	*6. Well Number: 1
*7. Location (Section, Block, and Survey): Garrett Roache Sur. A-59	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	6-6-73		6-10-73			
*9. (a) Size of Drill Bit (inches)	11"		7 7/8"			
(b) Estimated % Wash or Hole Enlargement Used in Calculations.	120%					
*10. Size of Casing (inches O.D.)	8-5/8" o.d.		2 7/8			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1,355		2904			
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	'A' 8% Gel, + 3% Salt.		*Remarks			
(b) In Second Slurry	Class 'A', + 2% $CaCl_2$		*REmarks			
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	250		230			
(b) In Second Slurry	150		200			
(c) In Third Slurry						
(d) Total Sacks of Cement Used	400		430			
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.23		1.81			
(b) In Second Slurry	1.18		1.39			
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	557.5		416			
(b) In Second Slurry	177.0		278			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	734.5		694			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	2,887		2,367			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes		Yes			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
STATE OF TEXAS
JUN 26 1973
RAILROAD COMMISSION
AUSTIN, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

2-10,520a

26. Remarks: EXXON COMPANY, USA
S.D. Chesnutt #1 -- Bee County
Cement Plug Set @ 4900' with 60 sks. Class 'H' prior to setting Production Casing.
PRODUCTION CASING:
13. (a) Lite-Wate, + 5% Salt.
(b) 1-1 TALC 'H', + 18% Salt, + 0.2% AF-2.

27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036e, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the plugging of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Terry L. Tripp

Signature of Cementer or Authorized Representative

Terry L. Tripp -- Service Supervisor

Name of Person and Title (type or print)

THE WESTERN COMPANY

Cementing Company

P. O. Box 4186

Street Address or P.O. Box

ROBSTOWN, TEXAS 78380

City, State Zip Code

512 387-1523

Telephone Area Code

June 10, 1973

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036e, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle

*Signature of Operator or Authorized Representative

Grady Coyle, Proration Specialist

*Name of Person and Title (type or print)

Exxon Corporation

*Operator

Wilson Tower

*Street Address or P.O. Box

Corpus Christi, Texas 78401

*City, State Zip Code

512 884-4571

*Telephone Area Code

June 27, 1973

*Date

- INSTRUCTIONS -

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugging may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

2D 56082

FORM W-1
(3-1-70)

7

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

AP BEE DIST. 2
API NO. 42 025 30216

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

7. RRC District: 2
8. County: Bee
9. Well Number: 1
10. Number of Acres in Lease: 617.6
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 467

1. Operator: Exxon Corporation
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78401
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] NO [ ]
4. Lease Name: Samuel Denver Chesnutt
5. Location (Sec., Blk., Survey): Garrett Roache Survey (A-59)
6. This well is to be located 10 miles East Northeast
Direction from Skidmore, Texas
Nearest Post Office or Town

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Burkes Ridge (Vicksburg 4800)	4800	--	467 1200	40	40	No	--	Yes	Oil	--	--
[redacted] (Wildcat) ABOVE 5200	5200	--	467 1200	40	40	No	--	Yes	Oil	--	--

RECEIVED R.R.C. OF TEXAS MAY 24 1973 O.G. SAN ANTONIO, TEXAS

RECEIVED R.R.C. OF TEXAS MAY 23 1973 O.G. SAN ANTONIO, TEXAS

025 30216

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS:

RECEIVED R.R.C. OF TEXAS MAY 25 1973 TEXAS

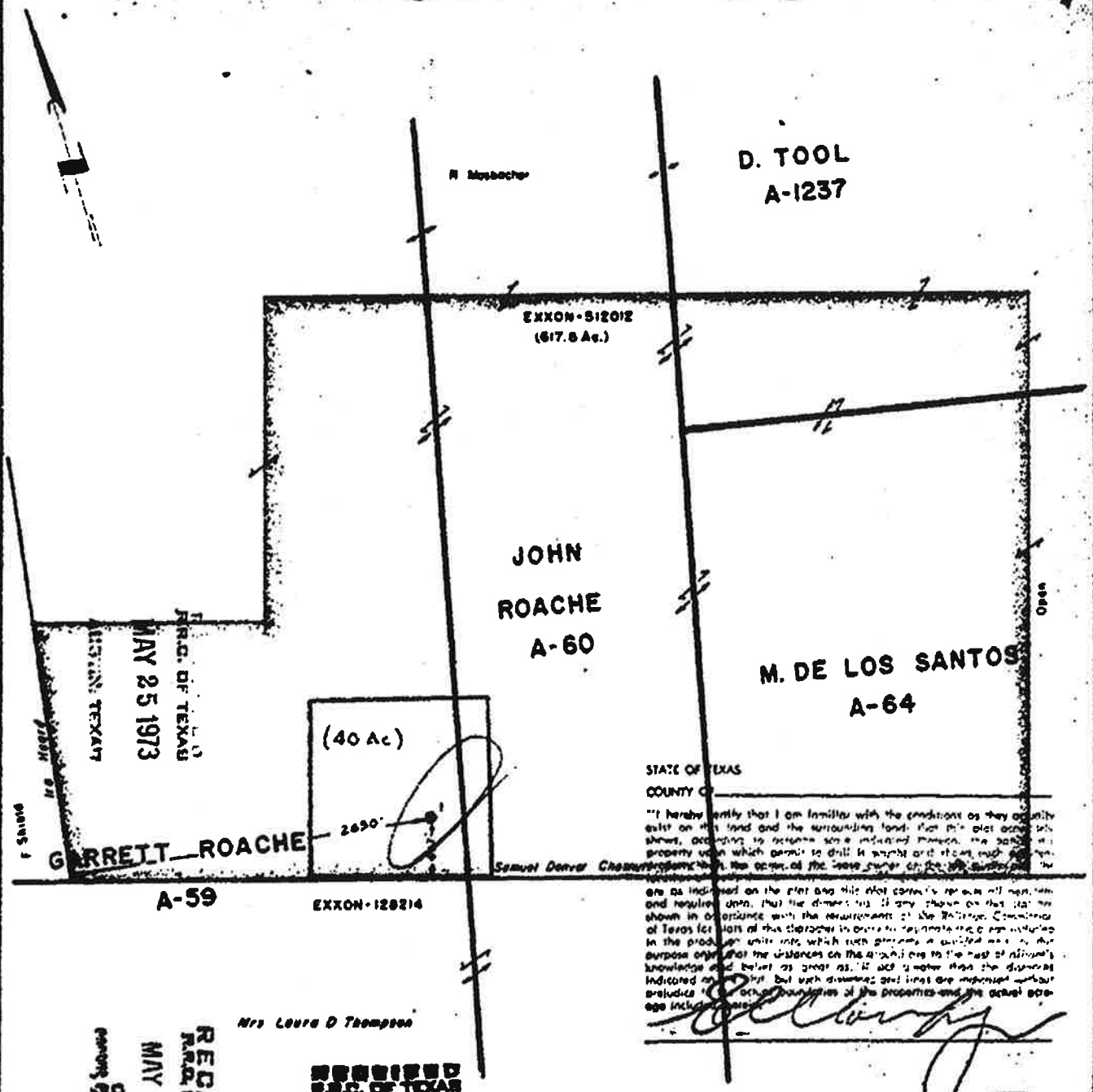
CERTIFICATE
I declare under penalties prescribed in Article 6036b, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: M. D. McNair
Title: Section Head
Date: May 23, 1973
Telephone: Area Code 512 884-4571

- OVER -

0 0 0 0 5 2 0 2 2 3 2

0 0 0 0 5 2 0 2 2 3 3 1



STATE OF TEXAS
COUNTY OF

"I hereby certify that I am familiar with the conditions as they actually exist on this land and the surrounding land; that this plat accurately shows, according to actual scale indicated thereon, the [illegible] property upon which permit to drill is sought and shows such [illegible] are as indicated on the plat and this plat correctly reflects all [illegible] and required data, that the dimensions [illegible] shown in accordance with the requirements of the Railroad Commission of Texas for plats of this character in order to designate the [illegible] in the production units into which such property is divided [illegible] purpose only; that the distances on the ground are to the best of affiant's knowledge and belief as great as, if not greater than the distances indicated on the plat, but such distances and lines are indicated without prejudice to the actual boundaries of the properties and the actual acreage included herein."

RECEIVED
R.R.C. OF TEXAS
MAY 25 1973
AUSTIN, TEXAS

RECEIVED
R.R.C. OF TEXAS
MAY 23 1973
O.G.
PARKING DIVISION, TEXAS

RECEIVED
R.R.C. OF TEXAS
MAY 24 1973
O.G.
SAN ANTONIO, TEXAS

Application For Location Well No 1

EXXON CORPORATION

R.R. COMM. SAMUEL DENVER CHESNUTT LSE. No.512012 BURKES RIDGE FIELD BEE COUNTY, TEX.	~~HUMBLE OIL & REFINING COMPANY~~ PRODUCTION DEPARTMENT SOUTH TEXAS DIVISION

DRAWN LGS	ENGR. SECTION	REVISED	SCALE 1"=1000'	JOB NO.	FILE NO.
CHECKED	APPROVED		DATE 5-8-73		SWT-A-3144

2AD 56082

MAP ID #34

API# 42-025-02600
DRY HOLE

Lucy Longtiter

(34)

FORM 1
RAILROAD COMMISSION OF TEXAS—OIL AND GAS DIVISION
Austin, Texas

IMPORTANT NOTICE: This is the first record the RAILROAD COMMISSION has of any well. It is made the basis of all subsequent correspondence. **Hence it Must be correct.**

NOTICE OF INTENTION TO DRILL, DEEPEN ~~OR PLUG~~

(To comply with Rules of the Railroad Commission of Texas governing Oil and Gas Conservation in Texas.)

DESCRIPTION OF PROPERTY

In order that the well covered by this notice may be definitely and accurately located on maps in the office of the commission, draw in the space below, in ink a sketch of the lease or block and lot, giving name and number, and indicate thereon the exact location of the well or attach to it a map showing this information. **Also show the distance, in feet, of the well from the two nearest boundaries of the lease and from the nearest well.** Give names of the adjoining lease or property owners.

Scale: 400 feet to 1 inch, if less than 2 acres, 100 feet to inch.

Use back hereof for sketch if necessary.

NORTH

Beginning at the S.E. corner of the J. C. Woods 1026.4 acre tract, thence in a northwesterly direction with the south line of the Woods tract 466'; thence in a southwesterly direction on a line parallel to the east line of the Woods tract South 9 Deg. West 466 ft., Laura D. Thompson 7495.1 acre tract, Garrett Roach Survey, Bee County, Texas

WEST EAST

RECEIVED
AUSTIN
JAN 22 1935
OIL & GAS DIVISION

SOUTH

This notice must be delivered to Deputy Supervisor of your district before drilling, deepening, or plugging. He will forward to the Railroad Commission, Austin, Texas.

Date January 18, 1935

Name of company or operator

Name Humble Oil & Refining Company

Address Box 1084, San Antonio, Texas

Name of farm or lease:

Name Laura D. Thompson

Located in - (Field), County Bee

Approx. 14 Miles S.E. direction from Beeville, Tex. nearest postoffice or town.

Section No. ..... Block No. .....

Survey Garrett Roach

Number of Acres 7495.1 Well No. 2

Rotary or Cable Tools Rotary

Date work will start drilling January 23, 1935

Depth to which you propose to drill 7200 feet.

~~Date you wish to plug ..... Well No. .....~~

(You must also give notice to adjacent lessees)

Date you wish to deepen ..... Well No. .....

If Lease Purchased with one or more wells drilled From Whom Purchased?

Name .....

Address .....

Deliver to Deputy Supervisor in charge of district in which well is located.

"Rule 37. Spacing Rule—(Applies to all fields in the State except where special field rules govern)—No well for oil or gas shall hereafter be drilled nearer than 300 feet to any other completed or drilling well on the same or adjoining tract or farm; and no well shall be drilled nearer than 150 feet to any property line, lease line, or sub-division line; provided that the Commission in order to prevent waste or to prevent the confiscation of property will grant exceptions to permit drilling within shorter distance than above prescribed whenever the Commission shall determine that such exceptions are necessary either to prevent waste or to prevent the confiscation of property. When an exception to such rule is desired, application therefor shall be filed with the Commission fully stating the facts, which application shall be accompanied by a plat drawn to the scale of one inch equalling 400 feet, accurately showing to scale the property on which permit is sought, to drill a well under an exception to this rule, and accurately showing to scale all other completed, drilling and permitted wells on said property; and accurately showing to scale all adjacent surrounding properties and wells. Such application shall be verified by some person acquainted with the facts, stating that all facts therein stated are within the knowledge of the affiant true, and that the accompanying plat is accurately drawn to scale and correctly reflects all pertinent and required data. Such exception shall be granted only after at least ten days notice to all adjacent lessees affected thereby has been given, and after public hearing at which all interested parties may appear and be heard, and after the Commission has determined that an exception to such rule is necessary either to prevent waste or to protect the property belonging to applicant from confiscation. All pending applications shall be amended to conform to this rule before being acted upon. Upon similar application and showing the Commission may grant exceptions to the application of this rule in fields where the production is obtained from a formation which is known to be segmented by piercement of intrusive salt plugs.

"In the interest of protecting life and property and for other just and reasonable causes the Commission reserves the right in particular fields to enter special orders increasing the minimum distances provided by this rule.

"No well drilled in violation of this rule without special permit obtained in the manner prescribed in said rule and no well drilled under such a special permit, which does not conform to the terms of such special permit in all respects shall be permitted to produce either oil or gas and any such well so drilled in violation of said rule or in violation of a permit granted under an exception to such rule shall be plugged."

Form 1—O-887-934-10m.

025-02600

Humble 1026.4 Ac. Lse

Magnolia 2500 Ac.

N 71°59 W 22,028.0'

Humble Oil & Refining

ROACH

Sept 29th, 1938

Humble Oil& Refining Co
San Antonio
Texas.

Dear Sir:

Will you inform this office if your log of well drilled on the Laura D Thompson lease in Bee County out of Garrett Roach survey in Bee County, Texas should read completion date for 9-24-31 or 7-5-32. As there is a rule that these logs cant be copied until six months from completion date, we will appreciate this information, so as to know if this log can go out or not.

Thanking you for this information, we are

Very truly yours,

Railroad Commission of Texas,

By:

R D Parker Chief Supervisor

Oil and Gas Division

D-m

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION
APPLICATION TO PLUG
and
WELL RECORD

FILE WITH DEPUTY OF DISTRICT IN WHICH WELL IS LOCATED, THREE FULL DAYS PRIOR TO PLUGGING (IF FILED WITH COMMISSION FIVE FULL DAYS.)

Name of Company or Operator Humble Oil & Refining Co. Address San Antonio, Texas

County Bee Survey Garrett Roach Blk. Sec.

Name of Farm or Lease Laura D. Thomson No. of Acres 7495.1 Well No. 2

Located 14 Miles SE Direction from Beeville, Texas (Nearest P. O. or Town)

Drilling Commenced 1/31/35, 19__, Drilling Completed 6/25/35, 19__

Character of Well (Oil, Gas or Dry) Dry Total Depth 5980

Date you wish to Plug Immediately, 19__

Name of Party Plugging Well Halliburton Oil Well Cementing Company Address Refugio, Texas

Correspondence regarding this well should be sent to: Name Mr. A. O. Behling

Address Box 1084 San Antonio, Texas

CASING RECORD

Put in Well		Pulled Out		Left in Well			Packer or Shoe
Size	Ft.	In.	Ft.	In.	Ft.	In.	
20" OD (4 jts)	84	0	0	0	84	0	20" Set shoe.
	Cemented with 100 sacks Alamo cement.						
13-3/8" OD (31 jts)	971	0	0	0	971	0	13-3/8" Set shoe
	Cemented with 810 sacks Alamo cement.						13-3/8" Float collar
9-5/8" OD (72 jts)	3230	8	1098	0	2132	2	9-5/8" Set shoe
	Cemented with 850 sacks Alamo cement.						9-5/8" Float collar
7" OD (75 jts)	5755	9	3318	4	2437	5	7" Set shoe
	Cemented with 100 sacks Alamo cement.						7" Float collar.

IF CASING WAS CEMENTED GIVE NUMBER OF SACKS USED ON DIFFERENT STRINGS

Initial Production of Gas: Volume Dry Pressure Dry

Initial Production of Oil: Barrels Dry

Give notice before Plugging to all available Lease Owners, as required by Subdivision (C) Rule (10). When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by Commission or Deputy Supervisors.

NOTE: If no log available, so state and give all information that can be obtained as to total depth, casing record, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks: Put 3230'2" (109 jts) 9-5/8" OD in hole. Shot and pulled 1098'0" (37 jts) 9-5/8" OD from hole. Put 5755'9" (185 jts) 7" OD in hole. Shot and pulled 3318'4" (107 jts) 7" OD from hole.

Drilled by Geo. Echols, Contractor. Req- SA-464

RECEIVED JUL 1 9 1935 OIL & GAS DIV.

FILL OUT FORMATION RECORD AND AFFIDAVIT ON REVERSE SIDE.

FORMATION RECORD

SHOW ALL FORMATIONS, ESPECIALLY ALL SANDS AND CHARACTER AND CONTENTS THEREOF

FORMATIONS Laura D. Thomson No. 2	TOP	BOTTOM	REMARKS
Clay and sand	0	150	
Sand & shale	150	370	
Sand	370	405	
Pink shale	405	450	
Sand	450	491	
Shale & bldrs	491	510	
Sand & gravel	510	548	
Shale	548	585	
Sand	585	635	
Shale	635	720	
Broken sand & shale	720	749	
Shale & lime	749	810	
Sticky shale	810	848	
Sand	848	890	
Sticky shale	890	915	
Shale	915	1105	
Sand w/hard strks	1105	1145	
Sand	1145	1150	
Shale w/lime strks	1150	1290	
Shale	1290	1415	
Sand	1415	1460	
Shale & lime shells	1460	1565	
Sandy shale	1565	1610	
Shale	1610	1680	
Sand	1680	1710	
Shale & lime strks	1710	1810	
Sticky shale	1810	1840	
Shale & lime	1840	1920	
Shale	1920	1935	
Sticky shale	1935	1965	
Sandy shale & sand	1965	2040	
Sand & shale	2040	2210	
Shale w/lime strks	22105	2240	
Broken sand & shale	2240	2272	
Sticky shale	2272	2282	
Brittle shale	2282	2311	
Shale & shells	2311	2355	
Shale w/hard strks	2355	2390	
Sand	2390	2420	
Shale	2420	2538	
Hard sand	2538	2550	
Shale	2550	2670	
Shale w/hard strks	2670	2700	
Brittle shale	2700	2743	
Hard sand	2743	2744	
Brittle shale	2744	2800	
Hard shale	2800	2809	
Sand & shale	2809	2838	
Hard cap	2838	2839	
Soft sand	2839	2870	
Sand	2870	2930	
Hard sand	2930	2935	
Sandy shale	2935	2983	
Hard cap	2983	2989	
Sand	2989	3053	
Cap	3053	3054	
Sand	3054	3164	
Shale	3164	3113	
Cap	3113	3115	
Shale	3115-3122		
Shale & sand	3122-3150		
Cap	3150-3151		
Sand	3151-3270		
Shale	3270-3278		
Sand	3278-3298		
Hard sand	3298-3301		
Sticky shale	3301-3313		
Brittle shale	3313-3320		
Sticky shale	3320-3363		
Sand	3363-3367		
Hard cap	3367-3369		
Sand	3369-3442		
Shale w/hard strks	3442-3557		
Sandy shale w/hard sand strks	3557-3562		
Sandy shale & hard sand	3562-3570		
Hard shale	3570-3640		
Sand & shale	3640-3656		
Shale & hard strks	3656-3745		
Brittle shale	3745-3753		
Hard shale	3753-3820		
Shale	3820-3849		
Hard sandy shale	3849-3853		
Shale	3853-3906		
Hard sandy shale	3906-3916		
Shale w/hard strks	sand 3916-3944		
Brittle shale	3944-3947		
Soft sand	3947-3952		
Sand	3952-3954		
Hard sand	3954-3957		
Sand	3957-3967		
Shale	3967-3993		
Sand & shale	3993-4008		
Hard sand cap	4008-4010		
Hard shale	4010-4104		
Shale w/hard strks	4104-4113		
Sandy shale w/hard sand strks	4113-4120		
Shale & hard strks	4120-4139		
Hard shale	4139-4148		
Sandy shale	4148-4163		
Broken shale	4163-4194		
Shale hard strks	4194-4200		
Hard shale	4200-4218		
Shale hard strks	4218-4295		
Hard shale	4295-4330		
Shale w/hard strks	4330-4460		
Shale w/stky strks	4460-4478		
Shale hard strks	4478-4536		
Hard shale	4536-4540		
Shale	4540-4596		
Hard shale	4596-4628		
Brittle shale	4628-4633		
Hard shale	4633-4640		
Hard sandy shale	4640-4642		
Hard shale	4642-4708		
Hard sandy shale	4708-4710		
Shale	4710-4720		

Method of shuttin off water Casing and cement Is water completely shut off? Yes

Amount of water with oil Dry per cent Dry

I, C. O. Belling being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

C. O. Belling
Representative of Company

Subscribed and sworn to before me this 15th day of July, 1927

Notary Public.

Hard sandy shale	4720
Shale	4727
Hard & soft shale w/hard sandy shale strks	4732
Soft pale green shale	4737
Soft shale & hard sand	4740
Hard shale	4742
Hard sandy shale	4747
Hard shale	4750
Shale w/hard strks	4752
Brittle shale	4767
Shale	4810
Shale hard strks	4834
Cap	4870
Sand & lignite	4873
Hard sand	4877
Oil sand	4878
Sand	4882
Sand & shale shells	48905
Sandy shale	4921
Hard sand cap	4949
Sandy shale	4952
Hard sandy shale	4958
Hard sand cap	4959
Soft sand	4961
Sand hard strks	4968
Hard sand cap	4972
Sandy shale	4975
Sand hard strks	4993
Sand	5000
Hard & soft sand	5014
Hard shale	5127
Sandy shale w/shells	5130
Shale w/sticky strks	5132
Hard shale	5148
Shale	5158
Shale hard strks	5172
Hard shale	5224
Shale	5232
Shale hard strks	5249
Shale	5255
Shale w/shells	5270
Loose sandy shale	5289
Sand & shale	5291
Shale	5309
Hard sandy shale	5315
Shale	5317
Shale & sandy shale	5323
Shale	5326
Sticky shale	5331
Sandy shale & hard sandy shale	5335
Shale & sandy shale	5348
Sticky shale	5360
Shale & sandy shale	5365
Hard cap	5399
Sand & shale	5402
Hard shale	5409
Sticky shale hard strks	5420
Hard cap	5443
Sand & sandy shale	5444
Sandy shale	5446
Sticky shale w/hard strks	5447
Sticky shale	5462
Hard sand cap	5473
Hard shale	5474
Shale	5497
Shale w/hard strks	5520
Shale	5540
Shale w/sandy strks	5573
Shale	5615
Sticky shale	5660
Shale, sticky strks	5719
Shale	5800
Hard shell	5870
Shale	5871

Total Depth

Coring Record

Sandy shale	2040-2045
Sand	2098-2103
Shale	2138-2143
Sand & shale	2167-2172
Sand	2197-2202
Shale	2225-2230
Sand & shale	2252-2257
Brittle shale	2282-2287
Brittle shale	2700-2705
Hard sand & shale	2743-2745
Brittle shale	2761-2766
Hard shale	2800-2805
Sandy shale	2809-2814
Soft sand	2839-2844
Soft sand	2844-2846
Sandy shale	2905-2955
Sand	2989-2994
Sand	3000-3005
Sand	3025-3030
Sand	3050-3053
Shale	3075-3078
Sand & shale	3109-3113
Sand	3124-3127
Sand	3223-3226
Shale	3278-3281
Sand	3315-3318
Shale hard strks	3365-3367
Shale	3485-3488
Shale	3517-3520
Sandy shale, hard sd.	3545-3548
Sandy shale, hard sd.	3559-3562
Sand & shale	3562-3564
Shale	3640-3645
Do	3658-3661
Shale & lime strks	3668-3671
Broken shale	3730-3732
Shale	3751-3756
Hard sandy shale	3820-3823
Do	3849-3851
Do	3851-3853
Brittle shale & sand	3909-3911
Sand - gas odor	3944-3949
Sand	3949-3952
Hard sand	3952-3954
Sand - Little oil show	3954-3956
Sand	3956-3958
Sand - Little oil show	3958-3962
Shale	3962-3966
Shale	3966-3970
Shale	3980-3983
Shale & sand	3988-3990
Sand & sandy shale	3990-3994
Sand & shale	3994-3997
Do	3997-4000
Do	4000-4004
Hard shale	4004-4008
Do	4012-4014
Do	4045-4047
Do	4060-4062
Shale hard strks	4083-4085
Hard shale & sandy shale	4104-4106
Sandy shale w/strks hard sand	4113-4115
Shale & hard sand	4115-4118
Shale	4118-4120
Shale & hard strks	4120-4122
Sandy shale	4126-4129
Shale hard strks	4150-4153
Do	4194-4196
Do	4260-4262
Missed core	4269-4271
Hard shale	4297-4299
Do	4299-4300
	4303-4305

(Coring Record Continued)
No showing unless indicated

Hard shale	4423-4425
Brown shale	4541-4543
Do	4557-4559
Missed core	4583-4585
Shale	4585-4587
Hard shale	4612-4614
Do	4622-4624
Brittle brown shale	4629-4631
Hard sandy shale	4640-4642
Hard shale	4642-4644
Do	4648-4650
Shale	4676-4678
Hard shale	4700-4703
Do	4703-4706
Hard sandy shale	4706-4709
Shale	4709-4711
Do	4711-4713
Do	4713-4715
Do	4715-4718
Do	4718-4721
Hard sandy shale	4721-4722
Do	4725-4727
Shale	4730-4732
Hard & soft shale sweet gas	4735-4737
Soft shale - gas odor	4737-4740
Hard sand & soft shale-gas	4740-4742
Hard sandy shale	4747-4749
Do	4749-4750
Hard shale	4750-4752
Soft sandy shale w/hard strks	4754-4757
Brittle shale	4768-4770
Do	4804-4806
Shale	4806-4807
Shale hard strks	4834-4836
Shale	4839-4841
Shale hard strks	4852-4855
Hard shale	4855-4857
Ptm sand - 1.7% oil	4873-4875
Do .5% oil	4875-4877
Hard sand	4877-4878
Soft sand - 3.3% oil	4878-4880
Soft sand	4880-4882
Do	4882-4884
White sand & green shale	4900-4905
Dark green sandy shale	4922-4927
Green sandy shale	4942-4947
Hard sand	4951-4953
Sandy shale	4953-4955
Do	4955-4957
Hard sandy shale	4957-4959
Hard sand cap	4959-4961
Soft sand	4961-4963
Do	4963-4965
Do	4965-4968
Sandy shale	4975-4976
Sandy shale	4977-4978
Do	4980-4982
Sand	4993-4995
Do	5000-5002
Do	5014-5016
Sticky shale & sandy shale - gas	5098-5100
Sand & shale	5100-5102
Sandy shale w/shells	5130-5132
Soft shale	5137-5139
Hard shale	5148-5150
Do	5158-5160
Shale	5160-5162
Shale hard strks	5172-5189
Shale	5189-5191
Shale	5198-5200
Shale	5232-5234
Shale hard strks	5249-5251
Shale & shells - faint gas odor	5271-5273
Shale & shells - faint gas odor	5273-5276
Shale & shells	5276-5279
Shale & shells, sandy shale tight - faint odor	5279-5282
Shale & shells	5286-5288
Loose shale & sandy shale - gas odor	5286-5291
Sand & shale - oil taste gas odor	5291-5293
Snad & sandy shale - oil taste and odor	5293-5295
Do	5295-5297
Loose shale w/sand gas odor	5297-5299
Shale & sand - gas odor	5299-5301
DO	5301-5304
Hard sandy shale-gas odor	5304-5307
Shale - gas odor	5307-5309
Shale	5309-5314
Shale & sandy shale	5314-5319
Shale & sandy shale	5319-5324
Shale	5324-5326
Do	5326-5331
Sandy shale	5338-5340
Sandy shale & hard sandy shale	5340-5342
Shale & sandy shale	5356-5357
Sandy shale	5356-5359
Shale & sandy shale	5359-5361
Soft shale & sandy shale	5366-5368
Do	5389-5391
Hard sandy shale and shale	5391-5393
Sand & shale	5403-5405
Sandy shale & hard shale	5408-5410
Sand & sandy shale-oil odor	5444-5446
Sandy shale & shale	5446-5448
Shale w/shells	5520-5525
Shale	5540-5545
Do	5560-5565
Do	5575-5580
Do	5800-5805

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FORM 4

RAILROAD COMMISSION OF TEXAS

RULE 10. Plugging Dry and Abandoned Wells.—(a) All abandoned or dry wells shall immediately be plugged according to the following rules:

(b) Manner of Plugging.—All dry or abandoned wells must be plugged by confining all oil, gas or water to the strata in which they occur by the use of mud-laden fluid filling well to the top as directed by the commission or by some other method approved by the Commission. In case of cable drilling, in addition to mud-laden fluid, cement and plugs may be used when so directed.

(c) Notice of Intention to Plug.—Before plugging dry and abandoned wells, notice shall be given to the Railroad Commission of Texas or its conservation agent in the field, and to all available adjoining lease and property owners, and representatives of such lease and property owners may, in addition to the oil and gas conservation agent of the Commission, be present to witness the plugging of these wells if they so desire, but plugging shall not be delayed because of inability to deliver notices to adjoining lease or property owners. (Rule 10 amended November 12, 1921.)

Rule 11. Log and Plugging Record to be Filed with Commission.—The owner or operator shall, upon the completion of any well, file with the Railroad Commission of Texas a complete record or log of the same, duly signed and sworn to, upon blanks to be furnished by the Commission upon application; and upon plugging any well for any causes whatsoever, a complete record of the plugging thereof shall be made out and duly verified on blanks to be furnished by the Commission.

PLUGGING RECORD

Company Humble Oil & Refining Company Address Box 1084 San Antonio, Texas

Sec. No. ..... Blk. No. ..... Survey Garrett Roach County Bee

Well No. 2 Name of Lease Laura D. Thomson No. of Acres 7495.1

Date well was plugged 6/25/35

Character of Well (Whether it was Oil or Gas or Dry) Dry

Total depth 5980 feet. Top of each producing sand None feet

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Pumps

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depths placed. Also amount of cement and rock.

Was well shot? No

7" OD casing plugged with 70 sacks cement from 3300' to 3135'.

9-5/8" OD casing plugged with 50 sacks cement from 1200' to 1050'.

Show depth found and thickness of all water, oil and gas formations Gas sand 3949 - 52; Oil sand 3956 - 66; Gas sand 5098 - 5100; Gas shale & shells 5271 - 5309;.

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:

Magnolia Petroleum Company, Dallas, Texas

RECEIVED JUL 19 1935 Oil & Gas Division

Was notice given before plugging to all available adjacent lease owners as required by subdivision (c) of Rule 10?

Yes

I, A. C. Billings, being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Name A. C. Billings, Title Representative of Company

Subscribed and sworn to before me this 15th day of July, 1935

Virginia Lund

Notary Public Bexar County, Texas.

Correspondence regarding this well should be addressed to:

Name Humble Oil & Ref. Co.

Address Box 1084 San Antonio

Form 117B—O-1076-235-5m.

MAP ID #35

API# 42-025-01540
GAS WELL
PLUGGED

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

RRC District: 2

Field: 43151

Well Number: 1

Lauka D. Thomson B

Bec

Humble Oil & Refining Company

Tower, Corpus Christi, Texas 78401

8660 FEET FROM E OF W LINE AND 660 FEET FROM S OF N LINE

Garrett Roache (A-59)

Single Dual Etc. Single

Total Depth 5430

Date Drilling Permit Issued: 1-17-1957

Date Drilling Commenced: 2-7-1957

Date Drilling Completed: 3-15-1957

Date Well Plugged

Humble Oil & Refining Company

Manner of Placement

PLUG 1	15	SACKS	TOP	5170	BOTTOM	5290	TYPE	Class A
PLUG 2	30	SACKS	TOP	1208	BOTTOM	1366	TYPE	Class A
PLUG 3	5	SACKS	TOP	5	BOTTOM	15	TYPE	Class A
PLUG 4		SACKS	TOP		BOTTOM		TYPE	

Was Well Filled with Mud Laden Fluid according to the regulations of the Railroad Commission? YES ✓ NO

How was Mud applied? Pump

Mud Weight 10.0 LBS GAL

Depth of Deepest Fresh Water 1200 FEET

Have all Abandoned Wells in this Lease been Plugged according to RRC Rules? YES ✓ NO If NO Explain

Name and Address of Party Plugging Well: Fish Oil Well Servicing Company, P.O. Box 1057, Beeville, Texas 78102

Casing and Tubing Remaining after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
9 5/8"	1313.00		1313.00	
5 1/2"	5286.28		4010.28	
4"	226.27		226.27	
2 3/8"	3270.00		None	

Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Was Notice of Intention to Plug Well Filed with the above and RRC District Office? YES ✓ NO

CERTIFICATE

[illegible] R. C. S. [illegible] knowledge

Brady Coyle
PROFESSIONAL ENGINEER

Proration Specialist
TITLE

1-26-72
DATE

Signature [illegible] COMMISSION

*All Dry Holes Fill in Reverse Side

16. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical Sonic Log or such Log must be released to a Commercial Log Service.

Log attached Log released to Date

Type Logs:

Driller's Electric Radioactivity Acoustical Sonic

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-60)

CEMENTING REPORT

Field: MEDIO CREEK (3350)
Operator: HUMBLE OIL & REFINING COMPANY
Lease: LAURA D. THOMSON B — I.D. Number 43151
Location (Section, Block and Survey): BARRETT ROACH (A-54)
Well Number: Bee 2 / 1

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
16. Cementing Date						
17. Size of Casing (in inches)						
18. Weight per Foot of Casing (lbs.)						
19. Hole Size						
20. Depth to Which Casing Was Run						
21. Sacks of Cement Used						
22. Slurry Volume Pumped, Cu. Ft.						
23. Calculated Top of Cement						
24. Top Determined By						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
16. Cementing Date	7-28-71	7-31-71	7-31-71			
17. Size of Casing (in inches)	5½" Csg	9 5/8" Csg	9 5/8 Csg			
18. Depth to Bottom of Tubing or Drill Pipe (ft.)	5200	1326	15			
19. Sacks of Cement Used	35	30	5			
20. Slurry Volume Pumped, Cu. Ft.						
21. Calculated Top of Cement	5170	1208	5			
22. Measured Top of Plug						

2-Mud 43151

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)
– OVER –

Items not to be completed by Operator. Items not to be designated shall be completed by Cementing Company

26. Remarks:	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6046c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Signature of Cementer or Authorized Representative

Howard E. Fish, President

Name of Person and Title (type or print)

Fish Oil Well Servicing Co.

Cementing Company

P. O. Box 1057

Street Address or P.O. Box

Beeville, Texas 78102

City, State Zip Code

Telephone 512 358-2505

Area Code

11-27-71

Date

***OPERATOR**

I declare under penalties prescribed in Article 6046c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented hereon.

Grady Coyle

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

HUMBLE OIL & REFINING COMPANY

*Operator

WILSON TOWER

*Street Address or P.O. Box

CORPUS CHRISTI, TEXAS 78401

*City, State Zip Code

*Telephone 512 884-4571

Area Code

1-26-72

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3,
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable provisions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(F).
3. If setting FULL AMOUNT OF SURFACE CASING
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules, Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

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RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form G-1
Rev. 7/3/66

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District: 2
8. RRC Identification Number: 43757
9. Well Number: 1
10. County: Bee
11. Purpose of Test: Initial Potential [X] Retest [ ] Reclass [ ]
14. Completion Date: 12-4-67

1. FIELD NAME (as per RRC Records or Wildcat): Medio Creek (3350) [redacted]
2. LEASE NAME: Laura D. Thomson "B"
3. OPERATOR: Humble Oil & Refining Company
4. ADDRESS: Wilson Tower, Corpus Christi, Texas
5. If Operator has changed within last 60 Days — Give former Operator: —
6. LOCATION (Section, Block, and Survey): Garrett Roache (A-59)
12. Pipe Line Connection: Trunkline Gas Company
13. If Workover, give former Field (with Reservoir): Medio Creek ~~(4120' Sand)~~
15. List of Offset Operators Notified and Date of Notification: None
16. Type of Electric or other Log Run: Induction Electric

NFD 1-5-68

Section I — GAS MEASUREMENT DATA

*Table 13

Date of Test: 12-6-67
Gas Measurement Method (Check One): Orifice Meter [X] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]
Gas produced during test: 231 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	* Compress Factor F_{pv}	Volume MCF/DAY
1	2.900	1.250	10082.50	513	38.3	77	.9840	1.0397	1.031	1491
2				517	24.5	78	.9831	1.0397	1.036	1202
3				518	11.7	79	.9822	1.0397	1.036	830
4				513	2.7	78	.9831	1.0397	1.036	397

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-In Temp.	Bottom Hole Temp.
.555	Dry Deg API	Dry CF/Bbl	G_{mix} = .555	98 °F	123 °F @ 3346 (Depth)

$D_{eff}^{8/3}$ = | $\sqrt{T_f}$ = $\sqrt{\ }$ = | $\sqrt{GL}$ = $\sqrt{\ }$ =

$C = \frac{1116 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = | $\frac{\sqrt{GL}}{C}$ = ____ = ____

Run No.	Time of Run Min	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_f	P_w/P_f
Shut-In	24 Hrs.		1258	74					
1	150	14/64	1239	80					
2	45	Adj.	1245	80					
3	45	Adj.	1250	80					
4	45	Adj.	1254	80					

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OIL & GAS DIVISION
AUSTIN, TEXAS

Run No.	F	K	$S = \frac{1}{n}$	gks	P_f and P_s	P_f^2 and P_s^2	$P_f^2 - P_s^2$	Angle of Slope
Shut-In					1351	1825		θ = 45°
1	Used Amerada				1342	1801	24	n = 1.000
2	RPG-3 Gage				1343	1804	21	Absolute Open Flow
3	2200# Element				1345	1809	16	110,000 MCF/DAY
4	Ser. No. 10762-N				1348	1817	8	27,500

OPEN FLOW TEST:
Shut-In Press ... DEC 14 1967 ... Psig
Time Shut-In ... Hrs.
Producing Through ... C.G. San Antonio, Texas
In. H_2O ... In. Hg ... Psig

Time	Reading	Time	Reading
15			
20		30	

FESCO, Inc. Larry D. Cone
REPRESENTATIVE OF COMPANY MAKING TEST

REPRESENTATIVE OF RAILROAD COMMISSION

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R. H. Bomar — REPRESENTATIVE OF COMPANY
R. H. Bomar — Supervisor — TITLE
12-13-67 — DATE

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18. Date Permit Issued: 12-1-67

19. Notice of Intention to Drill this Well was filed in Name of: Humble Oil & Refining Company

20. If Special Permit, Give Permit Number:

21. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

22. Total Number of Acres in this Lease: 10,500

23. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 11-28-67; Completed 12-4-67

24. Distance to Nearest Well, Same Lease & Reservoir: 8000' E of Well #2

25. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 8660 Feet From S of N Line and 660 Feet From E of W Line of the Laura D. Thomson "B" Lease

26. Elevation (DF, RKB, RT, GR, ETC): 159' D.F.

27. Was Directional Survey Made: Yes ☐ No ☒

28. Top of Pay: 3343'

29. Total Depth: 5430'

30. P.B. Depth: 3850'

31. Surface Casing Determined By: Recommendation of Texas Water Development Board ☒ Field Rules ☐ Railroad Commission (Special) ☐

32. Is Well Multiple Completion? Yes ☐ No ☒

33. If Multiple Completion List All Reservoir Names:

34. Intervals Drilled By: Rotary Tools: 100% Cable Tools:

35. Name of Drilling Contractor:

36. Is Cementing Affidavit Attached? Yes ☐ No ☐

37. CASING RECORD (Report All Strings Set in Well)

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
SEE ORIGINAL FORM 2					

38. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

39. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8	3270	3270

40. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From 3344 To 3348

From ___ To ___

From ___ To ___

From ___ To ___

41. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4101-4106 and 4125-4130	0 sxs. cement
3348-3348	7 shots Thor Jet Inc. Tornado Jet

42. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
SEE ORIGINAL FORM 2			

REMARKS: Perforations 4101-4106 and 4125-4130' Medio Creek (4120' Sand) squeeze cemented and well recompleted as a gas well in Medio Creek (3350' Sand) through perforations 3344-3348'.

NO FORM I-1 REQUIRED, WELL DRILLED PRIOR TO 11-2-62.

0014 0774

2

Railroad Commission of Texas

ADMINISTRATIVE SERVICES

COMMISSIONERS
JIM C. LANGDON
Chairman
BEN RAMSEY
BYRON TUNNELL
FRED OSBORNE, Secretary

E. M. DUTTON
Chief of Services
J. M. AKIN, JR.
Chief Accountant

AUSTIN, TEXAS
December 1, 1967

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Board of Water Engineers, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

Humble Oil and Refining Company
Wilson Tower
Corpus Christi, Texas

PERMIT TO DRILL OR DEEPEN
REGULAR LOCATION

Permission is hereby granted to Plug Back as a regular location the following well for which application has been received:

Form (Dated) November 29, 1967

Lease Name Laura D. Thomson "B" Well No. 1

Located in Garrett Roacha (A-59)
(Survey, Section, Block, Etc.)

Field Name Medio Creek (Wildcat) County Bee
(Name shown on said Form)

Should the applicable Commission spacing rule be changed prior to commencement of actual drilling operations so that the designated location thereby becomes irregular, then the above permit is rendered ineffective and a special Commission permit will be required to carry out such operation at the location shown.

Based upon the representations made on the above Form 1 and those made on any plat or plats filed therewith, it is believed that the operation indicated, when carried out at that point which you have represented to be the location of the above designated Well, complies as of the date hereof, with the provisions of the applicable Commission spacing rule subject to the limitations, if any, set out below. Compliance with the applicable Commission spacing rule renders it unnecessary that you secure a special Commission permit to cover this indicated operation at the location shown, the same being classed as Regular.

RECEIVED
DEC 13 1967
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

If there are outstanding permits covering operations which have not actually been started as of the date of filing of Form 1 above described and which, if started, would impair the regularity of this operation, then the permit covering that location on which the actual process of carrying out this indicated operation is first begun shall prevail, and all other such outstanding permits shall become ineffective.

LIMITATIONS ON REGULARITY OF OPERATION AT INDICATED LOCATION AS PERTAINS TO FORM 1 ABOVE DESCRIBED.

Yours truly,

E M Dutton

E. M. DUTTON
Chief of Services

#2

DC 3151

0014 0275

Railroad Commission of Texas

OIL AND GAS DIVISION

COMMISSIONERS
JIM C. LANGDON
Chairman
BEN RAMSEY
BYRON TUNNELL
FRED OSBORNE, Secretary

ARTHUR H. BARBECK
Chief Engineer

AUSTIN, TEXAS

January 8, 1968

Humble Oil & Refining Co.
Wilson Tower
Corpus Christi, Texas

Gentlemen:

This is to advise that we are temporarily setting up your Laura D. Thomson "B" Well No. 1 in our records as being in the Medio Creek (...) Field, Bee County, Texas, as a non-associated gas well operating under Statewide rules 28 and 29. If you do not hear from us to the contrary during the next thirty days, the designation is final.

This is a new gas field designation. You will be required to show the above field designation on all future reports and correspondence concerning this well.

As this field was discovered subsequent to January 1, 1953, the new field will be subject to field rules upon the completion of the eleventh well or the expiration of 24 months.

Yours very truly,

Arthur H. Barbeck
Chief Engineer

By: Tom Hays

Tom Hays
Engineer

TH:mm

cc: RRC - San Antonio
Bob Cook

#2 JD 43151

0 1 4 6776

Application to Drill, Deepen or Plug Back

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK PLUG BACK
SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE.
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

2

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 660 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 2000 (P&A) feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

SPS

Date November 29, 19 67

Name of company or operator

Name Humble Oil & Refining Company

Address Wilson Tower

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Laura D. Thorson "B"

Number of Acres 10.500 Well No. 1

Number of wells on lease 7

Elevation (Ft. above sea level) Section No. Block No.

Survey Garrett Roache (A-59)

Zone or Reservoir Wildcat

To be Located in Medio Creek Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.)

Bee County

8.7 Miles Northeast direction from

Skidmore, Texas nearest post office or town.

Rotary or Cable Tools

Date work will start drilling

Depth to which you propose to drill feet.

Date work will start deepening

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name

Address

Loc: 2000' SW of Walsh & Burke (P&A); 2700' NW of No. B-4 (20K).

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

20029

We propose to abandon the 4120' completion and recomplete.

D-4-9

D.O. 4-1-67

DRAW SKETCH IN SPACE BELOW OR FILE CERTIFIED LEASE PLAT
(Be sure that all required locations, footages, distances, and scales are given in clearly legible print. Black printing preferable.)

NORTH

WEST

EAST

SOUTH

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Board of Water Engineers, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

Scale of Plat 1" = 2000'

I, G. R. Jackson, being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Name Grady R. Jackson, Title Accountant

Subscribed and sworn to before me this 29th day of November, 19 67

Notary Public _____ County, Texas

Correspondence regarding this well should be addressed to:

Name Mr. W. J. Barrett Address Wilson Tower, Corpus Christi, Texas

MAP ID #36

API# 42-025-33888
OIL WELL

(36)

DISTRICT> **02** OIL PRORATION SCHEDULE SCHEDULE> **04 / 14**
FIELD > **LAURA THOMSON (4850)** # **52285 166** TYPE FIELD **NPX**
OPERATOR> **AURORA RESOURCES CORPORATION** # **036931**
LEASE > **ARC - THOMSON - BARROW** # **10695**
MOVABLE BAL> **353**
LSE DLY TOT> O(PRO) O(EX) G(PRO) G(EX)
LSE MO. ALLOW TOTAL> OIL GAS LIMIT PD WELLS/TOTAL ACRES
1

UNIT/ WELL #	API NUMBER	POTEN- TIAL	GAS/OIL RATIO	ACRES	DAILY ALLOWABLE OIL / GAS	TYPE WELL	LOWEST PERF
4	**025 33888**	**44.0**	**1000**			**PRODUCING**	**4837**

GO TO WELL # < > PF1=HELP PF4=PREV WELLS PF5=NEXT WELLS PF6=FIELD
PF7=LEASE INQUIRY PF8=P-4 PF9=LEDGER PF10=W-10 PF11=WELL REMARKS PF12=W-2
TO SELECT A UNIT OR WELL, PLACE THE CURSOR TO THE LEFT OF THE WELL OR UNIT.

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Tracking No.: 86313
Status: Approved

This facsimile W-2 was generated electronically from data submitted to the RRC.

API No. 42- 025-33888

7. RRC District No.: 02

Oil Well Potential Test, Completion or Recompletion Report, and Log

8. RRC Lease No.: 10695

1. FIELD NAME (as per RRC Records or Wildcat): LAURA THOMSON (4850)	2. LEASE NAME: ARC - THOMSON - BARROW	9. Well No.: 4
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): AURORA RESOURCES CORPORATION	RRC Operator No.: 036931	10. County of well site: BEE
4. ADDRESS: 600 LEOPARD STREET STE 1012 CORPUS CHRISTI, TX 78401-0423		11. Purpose of filing: Initial Potential [X]; Retest [ ]; Reclass [ ]; Well record only (Explain In remarks) [ ]
5. If Operator has changed within last 60 days, name former operator		
6a. Location (Section, Block, and Survey): ROACHE, G , A-59	6b. Distance and direction to nearest town in this county.: 4.5 MI EAST OF SKIDMORE	

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-O Gas-G	Well #
N/A			

13. Type of electric or other log run	14. Completion or recompletion date
Combo of Induction/Neutron/Density	09/09/2013

SECTION I- POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified infield rules.

15. Date of test	16. No. of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping- Size & Type of pump)	18. Choke size
09/18/2013	24	Flowing	7

	Oil - BBLS	Gas - MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19. Production during Test Period ▶	30.0	30	0	1000	350.0 PSI
20. Calculated 24-Hour Rate ▶	30.0	30	0	30.0	250.0 PSI
	Oil - BBLS	Gas - MCF	Water - BBLS	Oil Gravity-API-60 °	Casing Pressure

21. Was swab used during this test?	22. Oil produced prior to test (New & Reworked wells)	23. Injection Gas-Oil Ratio
Yes [ ] No [X]	140.0	

REMARKS: N/A

INSTRUCTIONS: File an original and one copy of the completed FormW-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

▶ WELL TESTERS CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature: Well Tester | Name of Company | RRC Representative

▶ OPERATOR'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

Type or printed name of operator's representative: Justin Houdmann
Title of Person: Operations Engineer
Telephone: Area Code Number: (361) 960-8848
Month Day Year: 09/25/2013
Signature

SECTION III **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion
New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

25. Permit to Drill, Plug Back or Deepen — DATE 07/30/2013 — PERMIT NO. 767253
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

26. Notice of Intention to Drill this well was filed in Name of
AURORA RESOURCES CORPORATION

27. Number of producing wells on this lease in this field (reservoir) including this well
1

28. Total number of acres in this lease
60.0

29. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced 08/18/2013 Completed 09/09/2013

30. Distance to nearest well, Same Lease &Reservoir
0.0

31. Location of well, relative to nearest lease boundaries
473.0 Feet From West Line and 549.0 Feet from
South Line of the ARC - THOMSON - BARROW Lease

32. Elevation (DF, RKB, RT. GR ETC.)
153 GL

33. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

34. Top of Pay	35. Total Depth	36. P. B. Depth	37. Surface Casing Determined by	Field Rules	Recommendation of T.D.W.R.	Railroad Commission (Special)
4828	5016	4964		[ ]	[X] Dt. of Letter 07/31/2013	[X] Dt. of Letter 08/02/2013

38. Is well multiple completion? [ ] Yes [X] No

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-0 Gas-G	Well #
N/A			

40. Intervals Drilled by:	Rotary Tools	Cable Tools
	X	

41. Name of Drilling Contractor
SCORPION E&P

42. Is Cementing Affidavit Attached? [X] Yes [ ] No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24.0	531		CLASS A 232	12 1/4	0	399.0
4 1/2	10.5	5010		50:50 (POZ:H) 995	7 7/8	0	2014.0

44. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen
N/A				

45. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	4816	4809

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
4835	4837

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval		Amount and Kind of Material Used
4835.0	4837.0	PERFORATED WITH CASING GUN F/ 4835' - 4837'

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
CATAHOULA	1700.0		
GRETA	2850.0		
VICKSBURG	4828.0		

REMARKS: [RRC Staff 2014-01-14 09:07:38.736]: see attached letter dated 01/13/2014; follow up on 01/27/2014; [RRC Staff 2014-01-28 12:07:35.752]: Field made associated; please set gas allowable to 49B;

RECEIVED
SEP 23 2013
BY:

Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
AURORA RESOURCES CORPORATION	[redacted]	2	BEE

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
LAURA THOMSON, S[redacted] (4850) 03693	42-025-33888	767253

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
ARC THOMSON-BARROW [redacted]			4

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date	9/19/13					
13. ●Drilling hole size	12 1/4"					
●Est. % wash or hole enlargement	[redacted]5%					
14. Size of casing (in. O.D.)	8 5/8"					
15. Top of liner (ft.)	N/A					
16. Setting depth (ft.)	531					
17. Number of centralizers used	5					
18. Hrs. waiting on cement before drill-out	8					
19. Slurry 1: No. of sacks	109					
Class	A					
Additives	REMARKS					
Slurry 2: No. of sacks	125					
Class	A					
Additives	NEAT					
Slurry 3: No. of sacks						
Class						
Additives						
20. Slurry 1: Volume (cu ft)	254					
Height (ft)	552					
Slurry 2: Volume (cu ft)	145					
Height (ft)	201					
Slurry 3: Volume (cu ft)						
Height (ft)						
Total: Volume (cu ft)	399					
Height (ft)	553					
21. Was cement circulated to ground surface (or to bottom of cellar) outside casing?	YES					

22. Remarks

*15:85:8 (POZ:A:GEL)+ 3% SALT

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb./gal.)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the construction of casing and the placing of cement plugs in the well as shown in the report was conducted by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

JESSE ORVANTEZ OPERATIONS	LAUROH CHAPA	
Name and title of cementer's representative	Cementing Company	Signature

P.O. BOX 2	BENAVIDES	TX	78341	361 256 3527	AUG 19, 2013
Address	City	State	Zip Code	Tel: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

JUSTIN HOUDMANN	ENGINEER	
Typed or printed name of operator's representative	Title	Signature

600 LEOPARD ST, SUITE 1012	CORPUS CHRISTI	TX	78401	(361) 882-3787	9/25/13
Address	City,	State,	Zip Code	Tel: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's State Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete **Form W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Aurora Resources Corp.	036931	02	**Bee**

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
LAURA THOMSON (4850)	42-025-33888	767253

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
ARC - **Thomson Barrow**			4

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date			8/20/03			
13. ●Drilling hole size			7 7/8"			
●Est. % wash or hole enlargement			5%			
14. Size of casing (in. O.D.)			4 1/2"			
15. Top of liner (ft.)			N/A			
16. Setting depth (ft.)			5010'			
17. Number of centralizers used			13			
18. Hrs. waiting on cement before drill-out			N/A			
1st Slurry (a) All cementing data: No. of sx.			775			
Class			15:85 Poz A			
Additives			Remarks			
2nd Slurry No. of sx.			250			
Class			50:50 Poz H			
Additives			Remarks			
3rd Slurry No. of sx.						
Class						
Additives						
1st (b) Slurry pumped volume (cu. ft.)			1021			
Height (ft.)			4000.0			
2nd Volume (cu. ft.)			293			
Height (ft.)			1000.0			
3rd Volume (cu. ft.)						
Height (ft.)						
Total Volume (cu. ft.)			2014			
Height (ft.)			5000.0			
(c) Was cement circulated to ground surface (or bottom of cellar) outside casing?			Yes			

22. Remarks

1st Slurry 15:85 Poz A 3% Salt(bwow) + 9% Gel + 0.2%A ntifoam + 0.25lb/sk Celloflake + 0.18%vRetarder

2nd Slurry 50:50 Poz H + 10% Salt (bwow) + 2% Gel + 0.2% Antifoam + 0.25lb/sks Cellfoflake + 0.02% Retarder

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal.)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in this report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Emilio Ritchie, Sales/Operations Manager — Texas Cementing Services, Inc.

Name and title of cementer's representative — Cementing Company — Signature

2620 East Corral St. — Kingsville, TX 78363 — (361)516-1127 — 8/29/2013

Address — City, State, Zip Code — Tel:Area Code Number — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

JUSTIN HOLDMANN — Typed or printed name of operator's representative

ENGINEER — Title

Signature

600 LEOPARD ST, SUITE 1012 — Address

CORPUS CHRISTI, TX 78401 — City, State, Zip Code

(361) 882-3787 — Tel:Area Code Number

9/25/13 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's State Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a muliple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete **Form W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as denned by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

API No. 42-025-33888
Drilling Permit # 767253
SWR Exception Case/Docket No.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC.
A certification of the automated data is available in the RRC's Austin office.

FORM W-1 07/2004

Permit Status: Approved

1. RRC Operator No.: 036931
2. Operator's Name (as shown on form P-5, Organization Report): AURORA RESOURCES CORPORATION
3. Operator Address (include street, city, state, zip): 600 LEOPARD STREET STE 1012, CORPUS CHRISTI, TX 78401
4. Lease Name: ARC - THOMSON - BARROW
5. Well No.: 4

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [ ] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth: 5000
9. Do you have the right to develop the minerals under any right-of-way ? [X] Yes [ ] No
10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? [ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.: 02
12. County: BEE
13. Surface Location [X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 4.5 miles in a E direction from SKIDMORE which is the nearest town in the county of the well site.

15. Section:
16. Block:
17. Survey: ROACHE, G
18. Abstract No.: A-59
19. Distance to nearest lease line: 473 ft.
20. Number of contiguous acres in lease, pooled unit, or unitized tract: 60

21. Lease Perpendiculars: 473 ft from the W line and 549 ft from the S line.
22. Survey Perpendiculars: 14377 ft from the N line and 2944 ft from the E line.

23. Is this a pooled unit? [ ] Yes [X] No
24. Unitization Docket No.:
25. Are you applying for Substandard Acreage Field? [ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION — List all fields of anticipated completion including Wildcat. List one zone per line.

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	52291300	LAURA THOMSON,S.E. (CHAMBERLAIN)	Oil or Gas Well	4900	0.00	1
02	52285166	LAURA THOMSON (4850)	Gas Well	4900	0.00	1

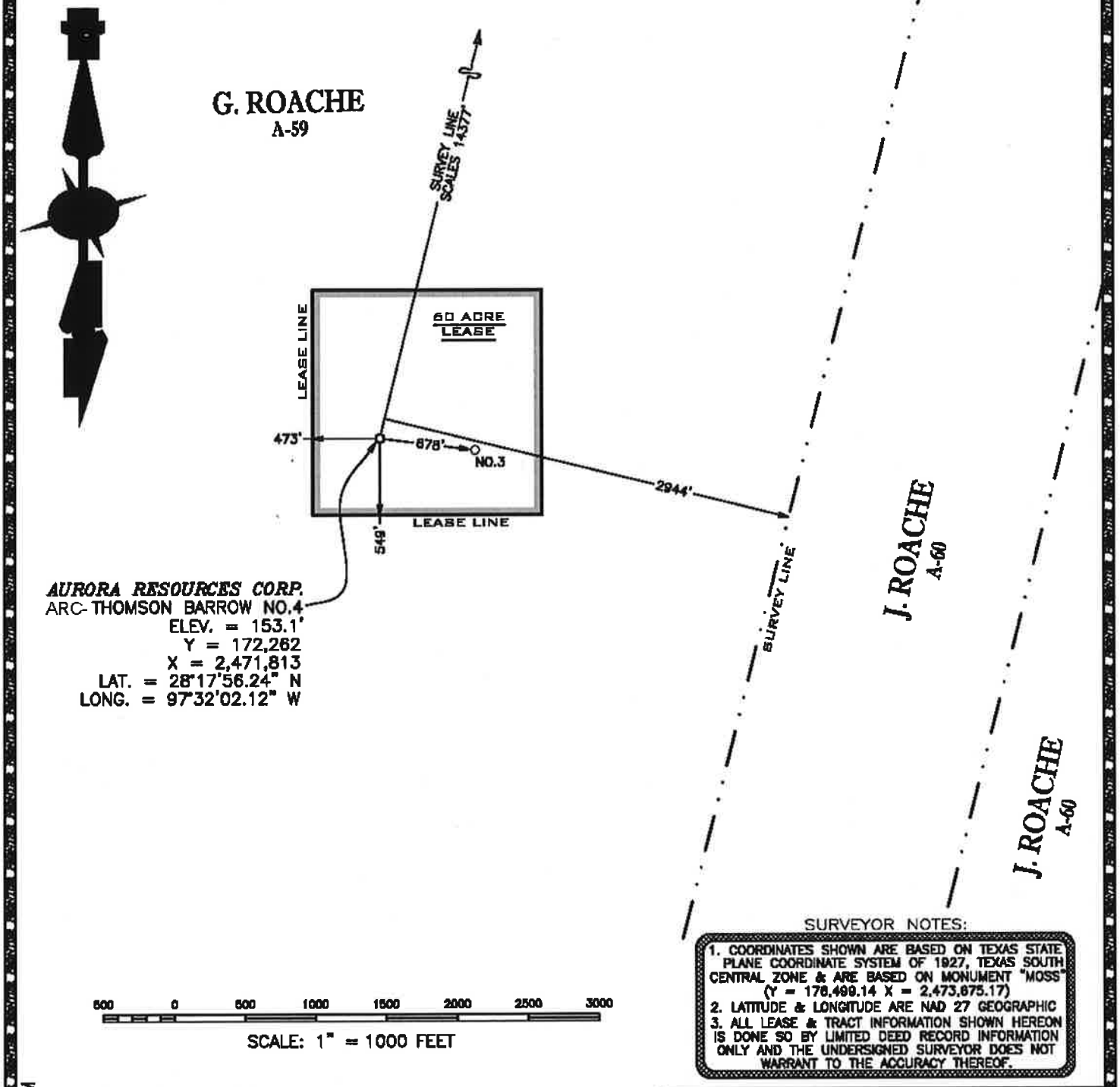
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks
[FILER Jul 29, 2013 4:53 PM]: all information herein provided by operator

Certificate:
I certify that information stated in this application is true and complete, to the best of my knowledge.

Amber Lorick — Name of filer
Jul 29, 2013 — Date submitted
(512)4780059 — Phone
alorick@banksinfo.com — E-mail Address (OPTIONAL)

RRC Use Only Data Validation Time Stamp: Jul 30, 2013 12:55 PM('As Approved' Version)



SURVEYOR NOTES:

1. COORDINATES SHOWN ARE BASED ON TEXAS STATE PLANE COORDINATE SYSTEM OF 1927, TEXAS SOUTH CENTRAL ZONE & ARE BASED ON MONUMENT "MOSS" (Y = 176,499.14 X = 2,473,875.17)
2. LATITUDE & LONGITUDE ARE NAD 27 GEOGRAPHIC
3. ALL LEASE & TRACT INFORMATION SHOWN HEREON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY AND THE UNDERSIGNED SURVEYOR DOES NOT WARRANT TO THE ACCURACY THEREOF.

500 0 500 1000 1500 2000 2500 3000

SCALE: 1" = 1000 FEET

I HEREBY STATE THAT THIS PLAT SHOWS THE SUBJECT LOCATION AS SURVEYED ON THE GROUND 05/20/13.THIS SHOULD NOT BE CONSIDERED A BOUNDARY SURVEY.

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE.

SERGIO Z. CANALES
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 6040

FRONTIER
SURVEYING COMPANY
SERVICES: LAND SURVEYING/LOCATIONS/PIPELINES/MAPPING/GPS/GIS
710 BUFFALO STREET, SUITE 700, CORPUS CHRISTI, TEXAS, 78401
PHONE: (361) 881 - 8044 FAX: (361) 881 - 8340
www.frontiersurveying.com

PLAT OF:

A WELL LOCATION FOR:

AURORA RESOURCES CORP.

ARC-*THOMSON BARROW NO.4*

SITUATED IN THE G. ROACHE SURVEY, A-59, APPROXIMATELY 4.5 MILES EAST SOUTHEAST OF SKIDMORE IN BEE COUNTY, TEXAS

Completion Date: 05/20/13		File Name:	1305015.DWG
Scale:	1"=1000'	Surveyed by:	MW/BR
Drawn by:	MT	Checked by:	SZC

PLOT DATE:05-23-13 1:21 PM

JOB #: 1305015

MAP ID #37

API# 42-025-31543
GAS WELL
PLUGGED

(37)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (if available) 42-025-31543

1. RRC District: 2

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 103483

2. FIELD NAME (as per RRC Records): BURKES RIDGE (Greta)

3. Lease Name: THOMSON, LAURA D. -B-

5. Well Number: 16

6. OPERATOR: MUELLER ENGINEERING

6a. Original Form W-1 Filed in Name of: Exxon Corp.

10. County: Bee

7. ADDRESS: 1010 First City Tower II, Corpus Christi, TX 78478

6b. Any Subsequent W-1's Filed in Name of: —

11. Date Drilling Permit Issued: 12-16-82

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 875 Feet From N Line and 7325 Feet From E Line of the Laura D. Thomson 'B' Lease

12. Permit Number: 180414

9a. SECTION, BLOCK, AND SURVEY: GARRETT ROACHE A-59

9b. Distance and Direction From Nearest Town in this County: 10 miles NE of Skidmore

13. Date Drilling Commenced: 12-30-82

16. Type Well (Oil, Gas, Dry): Gas

Total Depth: 5320

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas-G	WELL #
—		

14. Date Drilling Completed: 1-11-83

18. If Gas, Amt. of Cond. on Hand at time of Plugging: N/A

15. Date Well Plugged: 1-12-93

Plug back

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	1/12	1/12	1/12/93					
20. Size of Hole or Pipe in which Plug Placed (inches)	5 1/2	5½	5½					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2740	1400	40					
*22. Sacks of Cement Used (each plug)	20	20	5					
*23. Slurry Volume Pumped (cu. ft.) RECORD CODIFICATION	21.2	21.2	5.3					
*24. Calculated Top of Plug (ft.)	2580	1240	3					
25. Measured Top of Plug (if tagged) (ft.) APR 12 1993	—	—	—					
*26. Slurry Wt. # /Gal.	15.6	15.6	15.6					
*27. Type Cement	H	H	H					

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8"	24	1376	1373	12¼
5 1/2"	15.5	5312	5309	7 7/8"

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

—

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	2742	TO	2748 (OH)	FROM	TO
FROM	2756	TO	2762	FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

W. Terry Temple
Signature of Cementer or Authorized Representative

C.G.C. WELL SALVAGING, INC.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Cheryl DeShields
REPRESENTATIVE OF COMPANY

Engineering Secretary
TITLE

2/1/93
DATE

Phone (512)883-1911
A/C NUMBER

RECEIVED
RRC OF TEXAS
FEB 02 1993
SAN ANTONIO

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

025-31543

MAPPING

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission	[X] Yes [ ] No	32. How was Mud Applied?	33. Mud Weight
		Circulated	9.6 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules?	
5320			[X] Yes [ ] No	
Depth of Deepest Fresh Water	0	1350	36. If NO, Explain	
1350			—	

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: CGC Well Salvaging, Inc., P. O. Box 4609 Corpus Christi, TX 78469

Date RRC District Office notified of plugging: 1-11-93

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Thomas D. Barrow, 4605 Post Oak Place, S-207, Houston, Texas 77027-9728

Exxon Company, P. O. Box 2180, Houston, Texas 77252-2180

Amoco Production Company, P. O. Box 3092, Houston, Texas 77253

39. Was Notice Given Before Plugging to Each of the Above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

None

42. Amount of Oil produced prior to Plugging — 0 — bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

Type or print only

483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42- 025-31543

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7 RRC District No. 02

8. RRC Gas ID No. 103483

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (Greta)

2 LEASE NAME: Laura D. Thomson "B"

9. Well No 16

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): Mueller Engineering Corp.

RRC Operator No 592645

10 County of well site: Bee

4 ADDRESS: 1010 First City Tower II, Corpus Christi, Texas 78478

5 Location (Section, Block, and Survey): Garrett Roach Svy. 15,500" FSL & 2150 FEL, A-59

5b Distance and direction to nearest town in this county: 10 miles NE from Skidmore

11 Purpose of filing
- Initial Potential [ ]
- Retest [X]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

6 If operator has changed within last 60 days, name former operator: Exxon

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR: RECORN CONFICATION

GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #

13 Pipe Line Connection: Houston Pipe Line

N/A

JAN 12 1989

14 Completion or recompletion date: January 6, 1983

15 Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16 Type of Electric or other Log Run: Schlumberger

Section I — GAS MEASUREMENT DATA

Date of Test: 12/16/88

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] | Positive Choke [X] | Orifice Vent Meter [ ] | Pitot Tube [ ] | Critical-flow Prover [ ]

Gas produced during test: 10 MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2-3/8"	7/64"	0.261	955		60°	1.000	1.000	1.068	249
2										
3										
4										

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg Shut-in Temp	Bottom Hole Temp.
0.60	N/A Deg. API	N/A CF/Bbl	G_{mix} = 0.60	88 ^oF	115 ^oF @ 2752 (Depth)

$D_{eff}^{8/3}$ = 6.310

$\sqrt{T_f} = \sqrt{548} = 23.4$

$\sqrt{G_L} = \sqrt{(0.60)\ 2710} = 40.32$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{(1118)(6.310)}{23.4} = 301.48$

$\frac{\sqrt{G_L}}{C} = \frac{40.32}{301.48} = 0.1337$

Run No	Time of Run Min	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp ^oF	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			1015	60					
1	60	7/64"	955	60	912	33.29	1.108	955.58	0.999
2									
3									
4									

Run No	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0556	1.149	1.0660	1082	117.07	117.07
1	1.000	0.0556	1.141	1.0655	1018	103.63	13.44
2							
3							
4							

Angle of Slope BRB

θ .....45.....

n .....1.00....

Absolute Open Flow

~~2200~~ 249 ..... MCF/DAY

R.E. GF, 12-20-88

WELL TESTER'S CERTIFICATION I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

Eduardo Riddle — Signature Well Tester: Eduardo Riddle

Mueller Engineering Corp. — Name of Company

RRC Representative

OPERATOR'S CERTIFICATION I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Jean Bogard — Signature Operator's representative

Agent — Title

12/22/88 — Date

Tel (512) 883-1911 — A/C Number

SECTION III **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion
New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

18. Permit to Drill, Plug Back or Deepen — DATE — PERMIT NO. 180414
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19 Notice of Intention to Drill this well was filed in Name of

20. Number of producing wells on this lease in this field (reservoir) including this well

21. Total number of acres in this lease

22 Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced | Completed

23. Distance to nearest well, Same Lease & Reservoir

24. Location of well, relative to nearest lease boundaries of lease on which this well is located — Feet From Line and Feet from Line of the Lease

25. Elevation (DF, RKB, RT, GR, ETC.)

26 Was directional survey made other than inclination (Form W—12)? ☐ Yes ☐ No

27. Top of Pay | 28 Total Depth | 29. P. B Depth | 30. Surface Casing Determined by: Field Rules ☐ | Recommendation of T.D.W.R. ☐ | Railroad Commission (Special) ☐ | Dt of Letter | Dt. of Letter

31 Is well multiple completion? ☐ Yes ☐ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by | Rotary Tools | Cable Tools

34. Name of Drilling Contractor

35 Is Cementing Affidavit Attached? ☐ Yes ☐ No

36. **CASING RECORD (Report All Strings Set in Well)**

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu ft.

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38 TUBING RECORD

Size	Depth Set	Packer Set

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
From	To
From	To
From	To

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS

0 1 0 2 1 / 3 1

Form G-1
Rev. 6/1/80

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

API No. if Available 42-025-31543

RRC District 2

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

8. RRC Identification Number 103483

FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (Greta)

LEASE NAME: Laura D. Thomson "B"

9. Well Number: 16

OPERATOR: Exxon Corporation 257097

10. County: Bee

ADDRESS: Wilson Tower, Corpus Christi, Texas 78476

11. Purpose of Test: Initial Potential XX; Retest; Reclass

LOCATION (Section, Block, and Survey): Garrett Roach (A-59)

5b. Distance and Direction from nearest town in this county: 10 miles NE from Skidmore

If Operator has changed within last 60 days - Give former Operator.

12. If Workover or Reclass, give former Field (with Reservoir) & Gas ID or Oil Lease #.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #
Burkes Ridge (Vicksburg 4800)	098748	G	16

13. Pipe Line Connection

14. Completion or Recompletion Date: 1-9-83

List of Offset Operators Notified and Date of Notification

Any Condensate on hand at time of Workover or Recompletion? Yes No

16. Type of Electric or other Log Run.

Section I — GAS MEASUREMENT DATA

Date of Test: 1-10-83

Gas Measurement Method: Check One — Orifice Meter XX {Flange Taps XX, Pipe Taps} — Positive Choke — Orifice Vent Meter — Pitot Tube — Critical-flow Prover

Gas produced during test: 217 MCF

Orifice Size	Orifice Coeff.	24 Hr. Coeff. Orifice Chokes	Static P_m or Choke Press.	Diff. P_w	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress. Factor F_{pv}	Volume MCF/DAY
2.900	1.000	6356.75	795	37.0	72	.9887	1.0407	1.055	1183
2.900	1.000	6356.75	780	29.5	72	.9887	1.0407	1.055	1047
2.900	1.000	6356.75	765	23.5	72	.9887	1.0407	1.055	925
2.900	1.000	6356.75	765	16.0	72	.9887	1.0407	1.055	763

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity Dry Gas: .554 — Gravity Liquid Hydrocarbon: --- Deg. API — Gas-Liquid Hydro Ratio: Dry CF/Bbl — Gravity of Mixture G_{mix}: .554 — Avg. Shut-In Temp.: 99 °F — Bottom Hole Temp.: 124 °F @ 2752' (Depth)

$D_{eff}^{8/3}$ — $\sqrt{GL}$ = ____

$C = 1118 \cdot (D_{eff})^{8/3}$ — $\frac{\sqrt{GL}}{C}$ = ____

Run No.	Time of Run Min.	Choke Size	Wellhead Press. P_w PSIA	Wellhead Flow Temp °F	P_w^2 Thousands	R^2 Thousands	P_l	P_w/P_l
Shut-In	24 Hrs.		1058	74				
	195	16/64	857	85				
	30	14/64	898	85				
	30	12/64	929	85				
	30	10/64	965	85				

RECORD CODIFICATION

Run No.	F	K	$S = \frac{1}{K}$	E^{ks}	P_l and P_s	P_l^2 and P_s^2	$P_l^2 - P_s^2$
Shut-In					1119	1252	
	Used Amerada				915	837	415
	1" BHP Gage				955	912	340
	2800# Element				987	974	278
	SN: 25902				1022	1044	208

Angle of Slope: θ = 62.0°; n = .532

Absolute Open Flow: 2200 MCF DAY

An inclination survey has been run in accordance with Statewide Rule 11 and the results are available upon request. Maximum horizontal displacement was _____ feet at a measured depth of _____ feet.

Signature of Authorized Representative — Name of Company Conducting Survey

I have knowledge that the cementing operations, as reflected by the information found on the reverse side of this form, were performed as indicated by such information.

Signature of Cementer or Authorized Representative — Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

[signature] — OPERATION SPECIALIST — 1-18-83 — Phone 257-2228

REPRESENTATIVE OF COMPANY: G. T. PRESSOUT — TITLE — DATE — AREA NUMBER

This test was conducted at the request of the operator for the express purpose of satisfying RRC requirements. Its suitability for any other purpose is not certified by FESCO, Inc. For details contact FESCO, Inc.

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well — Deepening — Plug Back ✓ — Other —

18. Permit to Drill, Plug Back or Deepen — DATE 12-16-82 — PERMIT NO. 180414
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this Well was filed in Name of: Exxon Corporation

20. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

21. Total Number of Acres in this Lease: 10,500

22. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 12-30-82 Completed 1-11-83

23. Distance to Nearest Well, Same Lease & Reservoir: —

24. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 875 Feet From N Line And 7325 Feet From E Line of the Laura D. Thomsen "B" Lease

25. Elevation (DF, RKB, RT, GR, ETC): 148.8 DF

26. Was Directional Survey Made Other Than Inclination (Form W-12)? — Yes ✓ No

27. Top of Pay: 2742 — 28. Total Depth: 5320 — 29. P. B. Depth: 4661 — 30. Surface Casing Determined by: Field Rules — Recommendation of T.D.W.R. ✓ Dt. of Ltr. 5-26-81 — Railroad Commission Special — Dt. of Ltr.

31. Is Well Multiple Completion? Yes — No ✓ — 32. If Multiple Complete on Line All Reservoir Names Completion in this Well and Oil Lease or Gas ID No. — FIELD & RESERVOIR — GAS ID or OIL LEASE — Oil - G — WELL — 33. Intervals Drilled by: Rotary Tools ✓ — Cable Tools

34. Name of Drilling Contractor: —

35. Is Cementing Affidavit Attached? — Yes ✓ No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (Sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	1376.01		C.I.H 665sx	12 1/4	Surface	1208
5 1/2	15.5	5311.64		C.I.H 680sx	7 7/8	Surface	1134.9

37. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8" 4.7#	2710'	

39. Producing Interval (this completion) indicate Depth of Perforation or Open Hole

From	2742'	To	2748'	
From	2756'	To	2762'	
From		To		
From		To		

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4827-4829	Set CIBP @ 4681 20' cmt on top

No logs Initially

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Sand - Shale	Surface - 5320 T.D.		

REMARKS —

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

180414

FORM W-1
1/1/81

API Well No. 42 -025-31543
Instruction (7a & b) on back side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Directional Well | Sidetrack | Amended Permit (Explain in Remarks)

RRC Permit Number, if previously assigned. ~~119891~~

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: DRILL | DEEPEN (Below Casing) | DEEPEN (Within Casing) | X PLUG BACK | RE-ENTER

1. Operator
EXXON CORPORATION 257097

2. Address (Including City and Zip Code)
WILSON TOWER 007247
CORPUS CHRISTI, TEXAS 78476

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES X NO (Instruction (2) on back side.)

4a. Lease Name (32 Spaces Maximum)
Laura D. Thomson "B"

4b. RRC Lease or ID No. (if assigned)

5. Location (Sec., Blk., Survey)
Garrett Roach (A-59)

6. This well is to be located 9.8 miles NE
Direction from Skidmore, Texas
Nearest Post Office or Town.

7. RRC District
2

8. County
Bee

9. Well Number
1 1 6

10. Number of Contiguous Acres in Lease or Unitized Tract
10500

11. Distance from Proposed Location to Nearest Lease or Unit Line (ft.)
875

12. Total Depth
5810

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exec. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40 (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of completed, permitted or applied for, Locations on this lease in same reservoir for which this permit is sought: OIL	GAS
13551 120 BurkesRidge (Greta)	2754	---	467-1200	40	40	NO	---	Regular 1 X Rule 37 2	Gas	---	-0-
Wildcat Above	5810	---	467-1200	40	40	NO	---	Regular 1 X Rule 37 2	Oil or Gas	---	---
00004 001								Regular 1 Rule 37 2			
permit granted 12/16/82								Regular 1 Rule 37 2			

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NOV 10 1982
OO
SAN ANTONIO TEXAS

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED
A. Lease Lines 875' from N line & 7325' from E line
B. Survey Lines 15500' from S line & 2150' from E line

25. (a) Is this wellbore subject to SWR 36? Yes No X
(b) If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.)

26. Do you anticipate future use of this wellbore to complete in any penetrated zone not listed in Column 13, for which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see Instruction #8. Yes No XX

27. Is this a pooled unit? YES (Attach P-12, certified plat, & list of pooled zones) NO X

28. Substandard Acreage YES (Attach W-1A) NO X

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

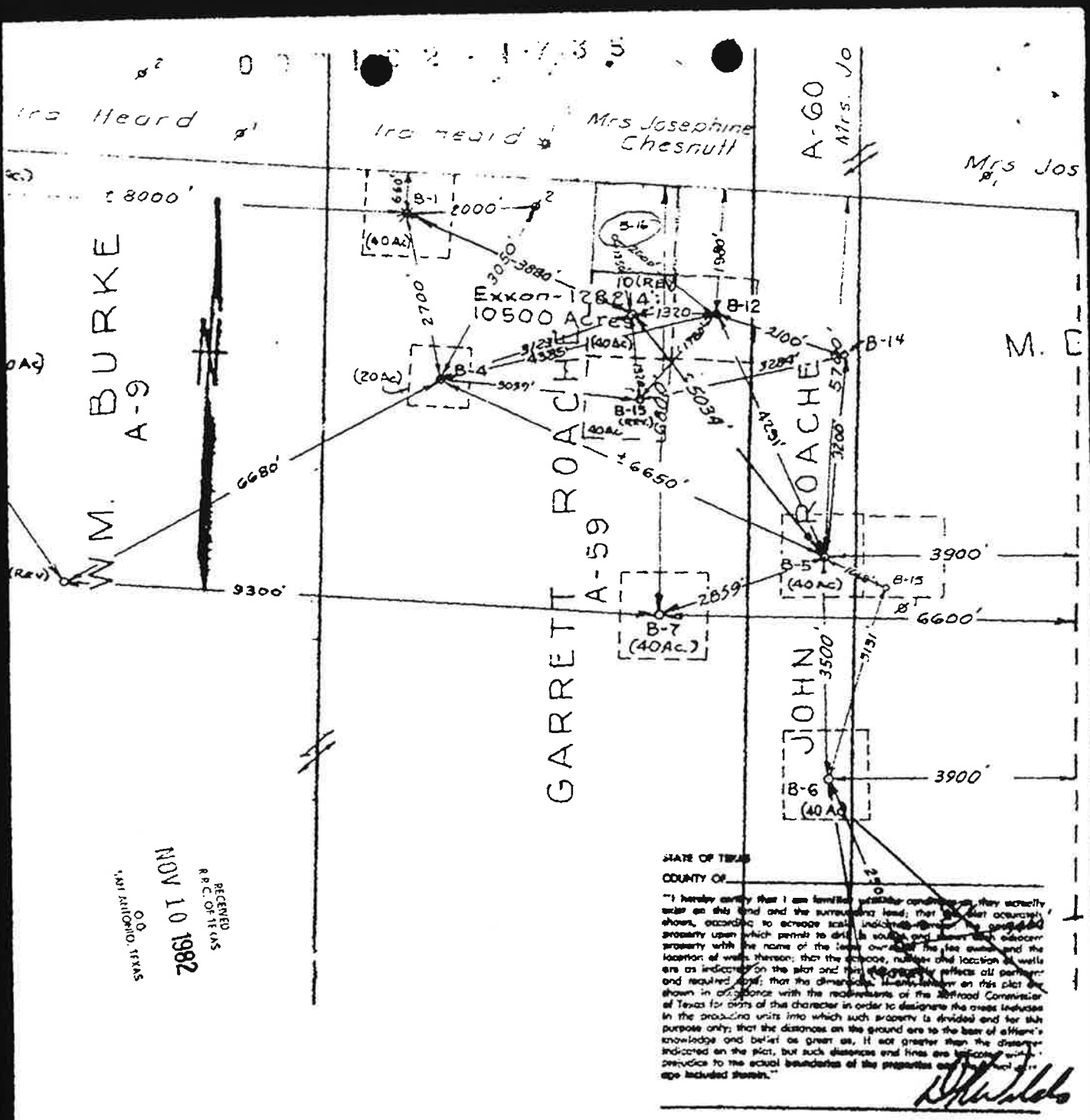
CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS

Signature Helen Casser
for G. F. PRESSON, PRORATION SPECIALIST
Title
November 5, 1982
Date
Telephone, Area Code 512 887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.



NOTE: All well units shown have 40 Acres unless otherwise noted.

Application for Location Well No. 16
Located 875 ft. from N line
and 7325 ft. from E line of Lease
Located 15500 ft. from S line
and 2150 ft. from E line of Survey
Distances are perpendicular to Lease/Survey

EXXON CO. U.S.A.–S.T.D.–R.R. COMM.

LAURA D. THOMPSON "B" LEASE NO. 128214
BURKES RIDGE, E FIELD BEE CO.
GARRETT ROACH (A-59) SURVEY 10,500 AC.
SCALE: 1" = 2000' DATE: 11/3/82

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form G-1
Rev. 6/12/78

API No. - 42 Assigned: 42-025-31543

RRC District: 2

RRC Identification Number: 065748

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

13551 500 VK586. 4800

3. FIELD NAME (as per RRC Records): Buckes Ridge (Vicksburg 4800)

2. LEASE NAME: Laura Thomson "B"

9. Well Number: 16

4. OPERATOR: Exxon Corporation

10. County: Bee

5. ADDRESS: Wilson Tower, Corpus Christi, Texas 78476

11. Purpose of Test: Initial Potential [X] Retest [ ] Recl [ ]

6. LOCATION (Section, Block, and Survey): Garrett Roach (A-59)

6a. Distance and Direction (from nearest town in this county): 10 miles NE from Skidmore

7. If Operator has changed within last 60 days - Give former Operator.

12. If Workover or Reclass, give former Field (with Reservoir) & Gas ID or Oil Lease #.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O. Gas - G	WELL #

13. Pipe Line Connection

14. Completion or Recompletion Date: 2-2-82

15. List of Offset Operators Notified and Date of Notification

Any Condensate on hand at time of Workover or Recompletion? [ ] Yes [ ] No

16. Type of Electric or other Log Run.

5/15/82 ASSOC 10090 REC

Section I — GAS MEASUREMENT DATA

Date of Test: 2-8-82

Gas Measurement Method (Check One): Orifice Meter [X] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 746 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_w or Choke Press.	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress. Factor F_{pv}	Volume MCF/DAY
1	2.900	1.000	6356.75	315	74.0	85	.9768	1.0215	1.020	988
2					56.0	82	.9795	1.0215	1.021	862
3					39.0	77	.9840	1.0215	1.022	724
4					27.0	72	.9887	1.0215	1.022	605

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.575	28.6 Deg. API	135.342 CF/Bbl	G_{mix} = .600	116 °F	158 °F @ 4828 (Depth)

$D_{eff}^{8/3}$ = ____ $/T_f$ = $\sqrt{\ }$ = ____ $\sqrt{GL}$ = ____

$C = \frac{1118 \cdot (D_{eff})^{8/3}}{\sqrt{T}}$ = ____ = ____ $\frac{\sqrt{GL}}{C}$ = ____

WATER BOARD LETTER Dated JUL 05 1982
Depth = 13(A) Exception Dated
Surface Casing
P.K. Pool
MAR 11 1982
O.G. SAN ANTONIO, TEXAS
1200 ft.

Run No.	Time of Run Min.	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_t or P_c
Shut-in	24 Hrs.		1141	74				
1	930	Adj.	930	120				
2	75	Adj.	1056	120				
3	75	Adj.	1140	120				
4	60	Adj.	1200	120				

Run No.	F	K	$S = \frac{1}{2}$	E^{-ks}	P_t and P_s	P_t^2 and P_s^2	$P_t^2 - P_s^2$
Shut-in					1931	3729	
1	Used Amerada				1529	2338	1391
2	1st BHP Gage				1605	2576	1153
3	4000= Element				1670	2789	940
4	SN: 43903				1732	3000	729

Angle of Slope: θ = 49.5°, n = .854

Absolute Open Flow: 2300 MCF/DAY

An inclination survey has been run in accordance with Statewide Rule 11 and the results are available upon request. Maximum horizontal displacement was _____ feet at a measured depth of _____ feet.

Signature of Authorized Representative — Name of Company Conducting Survey

I have knowledge that the cementing operations, as reflected by the information found on the reverse side of this form, were performed as indicated by such information.

Signature of Cementer or Authorized Representative — Name of Cementing Company

CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

G. F. Presson — PRORATION SPECIALIST — MAR 9 1982 — Phone 512/887-2228

REPRESENTATIVE OF COMPANY — TITLE — DATE — A C NUMBER

G. F. PRESSON

025-31543

This test was conducted at the request of the operator for the express purpose of satisfying its suitability for any other purpose is not certified by FESCO, Inc. For details contact FESCO, Inc. RRC requirements.

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest) Amended permit applied for

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

16. Permit to Drill, Plug Back or Deepen — DATE: 6-3-81 — PERMIT NO.: 119891

Rule 37 Exception — CASE NO.:

Water Injection Permit — PERMIT NO.:

Salt Water Disposal Permit — PERMIT NO.:

Other — PERMIT NO.:

18. Notice of Intention to Drill this Well was filed in Name of: Exxon Corporation

20. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

21. Total Number of Acres in this Lease: 10,500

22. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 8-30-81 Completed 9-5-81

23. Distance to Nearest Well, Same Lease & Reservoir: —

24. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 875 Feet From N Line And 7325 Feet From E Line of the Laura D. Thomson "B" Lease

25. Elevation (DF, PKB, RT, GR, ETC): 148.8 DF

26. Was Directional Survey Made Other Than Inclination (Form W-12)? Yes [ ] No [X]

27. Top of Pay: 4827 — 28. Total Depth: 5320 — 29. P. B. Depth: 5281

30. Surface Casing Determined by: Field Rules [ ] Reg. — Recommendation of T.D.W.R. [X] — Dt. of Ltr. 5-26-81 — Railroad Commission (Special) [ ] — Dt. of Ltr.

31. Is Well Multiple Completion? Yes [ ] No [X]

32. If Multiple Completion List All Reservoir Names (Completion in this Well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: Flournoy Drilling Co.

35. Is Cementing Affidavit Attached? Yes [ ] No [X]

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (Sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	1376.01		Cl. H 665sx	12 1/4	Surface	1208
5 1/2	15.5	5311.64		Cl. H 680sx	7 7/8	Surface	1136.9

37. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8", 4.7#	4725	4752

39. Producing Interval (this completion) Indicate Depth of Perforation or Open Hole

From	4827	To	4829	
From		To		
From		To		
From		To		

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Sand & Shale	surface - 5320 T.D.		

REMARKS:

0 9 1 2 1 / 4 5

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W - 15
(Rev. 5 1-80)

CEMENTING REPORT

098748

Burkes Ridge	2
Exxon Corp.	Bee
L. D. Thomson "B"	16
Garrett Roach (A-59)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
Cementing Date	8/31/81					
Size of Drill Bit (inches)	12 1/4					
Size of Casing (inches O.D.)	8 5/8					
Depth of Liner used (ft.)						
Setting Depth of Casing (ft.)	1376.01					
Type API Cement Amount of Additives Used: (a) In First (Lead) or Only Slurry (if additional space needed, use "REMARKS" on reverse side.)	415H+ 8 %Gel+3% Salt					
(b) In Second Slurry	200H+ 2% CACL2					
(c) In Third Slurry	50H+ 2% CACL2					
Sacks of Cement Used: (a) In First (Lead) or Only Slurry	415					
(b) In Second Slurry	200					
(c) In Third Slurry	50					
(d) Total Sacks of Cement Used	665					
Slurry Volume per Sack of Cement (cu.ft. sack): (a) In First (Lead) or Only Slurry	2.2					
(b) In Second Slurry	1.18					
(c) In Third Slurry	1.18					
Volume of Slurry Pumped (cu.ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry	913					
(b) In Second Slurry	236					
(c) In Third Slurry	59					
(d) Total Slurry Volume Pumped (cu.ft.)	1208					
Calculated Annular Height of Cement Slurry Behind Pipe (ft.)	137[illegible]					
Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
Cementing Date						
*20. Size of Drill Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
Sacks of Cement Used (each plug)						
Slurry Volume Pumped (cu. ft.)						
Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

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PRC OF TEXAS
MAR 11 1982
OG
SAN ANTONIO, TEXAS

CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF

– OVER –

* [illegible]

26. Remarks: 095486 8/31/81
Exxon #B-16 L.D.Thompson
Refugio County
Surface 8 5/8" 12 1/4 hole 1376'

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Rusty Knezek
Signature of Cementing Representative

Rusty Knezek
Name of Person and Title (type or print)

Halliburton Services
Cementing Company

Rt. 6 Box 452
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512- 575-1443
Area Code

9/2/81
Date 9/2/81

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

G F Presson
*Signature of Operator or Authorized Representative

G. F. PRESSON PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER
*Street Address or P.O. Box

CORPUS CHRISTI, TX 78476
*City, State Zip Code

512/887-2228
*Telephone Area Code

MAR 9 1982
*Date

INSTRUCTIONS

1. A [illegible] by the operator in the RRC District Office with
   a. [illegible] W-2 if a cementing report is required by Statewide or Special Rules or if exception is needed to cementing requirements in Statewide or Special Rules, unless the Form G-1 or W-2 is signed by the cementing company representative
   b. [illegible] W-3 is signed by the cementing company representative
   c. [illegible] parallel casing completion
   B. [illegible] shall be filed for each cementing company used on a well
   C. [illegible] cementing company may be consolidated on one form to be filed in duplicate.
2. Cementing [illegible] shall comply with the applicable portions of Statewide Rules 8, 13 and 14. For offshore operations, Cementing Company and [illegible]
3. [illegible]
   A. [illegible]
   B. [illegible] from casing shoe to ground surface
4. [illegible] AMOUNT OF SURFACE CASING PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION
5. [illegible]
   A. [illegible] shall be cemented from the casing shoe to the surface
   B. [illegible] cement from the depth that protects fresh water sands to the surface
6. [illegible]
   A. [illegible] surface
   B. Whether [illegible] or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to [illegible]
   C. [illegible] Compliance will be considered if a temperature survey shows that the top of the cement is at [illegible] the surface string to the surface
7. [illegible] Statewide Rules, Special Rules may vary
   A. [illegible]
   B. [illegible] protecting string, a minimum of [illegible] cement shall be left inside the pipe
8. [illegible]
   A. [illegible] Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC [illegible]
   B. [illegible] shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed
   C. A 10 foot cement plug is required to be placed in [illegible] of the well

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev. 5-1-80)

CEMENTING REPORT

099748

RECEIVED
OIL & GAS DIVISION
MAR 17 1982
SAN ANTONIO, TEXAS

*1. Field Name (as per RRC Records or Wildcat): Burkes Ridge
*1. RRC District: 2
*2. Operator: Exxon Corp.
County: Bee
*3. Lease Name or RRC Lease Number (or I. D. Number): L. D. Thomson "B"
*3. Well Number: 16
*4. Location (Section, Block, and Survey): Harrett Roach (A-59)

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING: Long String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date			9-8-81			
*9. (a) Size of Drill Bit (inches)			7 7/8			
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)			5 1/2			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)			5311.64			
13. Type API Class of Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "Remarks" on reverse side.)			TLW + 5% Salt			
(b) In Second Slurry			TLW + 5% Salt			
(c) In Third Slurry			H + .6% Halad-9			
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry			220			
(b) In Second Slurry			310			
(c) In Third Slurry			150			
(d) Total Sacks of Cement Used			680			
15. Slurry Volume per Sack of Cement (cu.ft. sack): (a) In First (Lead) or Only Slurry			1.86			
(b) In Second Slurry			1.77			
(c) In Third Slurry			1.18			
16. Volume of Slurry Pumped, (cu.ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry			409.2			
(b) In Second Slurry			548.7			
(c) In Third Slurry			177.0			
(d) Total Slurry Volume Pumped (cu.ft.)			1134.9			
17. Calculated Annular Height of Cement Slurry Behind Pipe (ft.)			5324			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)			Yes			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.

- OVER -

* Data required for all wells drilled to oil or gas. Incomplete forms will be returned to operator. Items not applicable shall be marked N/A.

*26. Remarks Tkt. #095932 9-8-81
Exxon
#B-16 L.D. Thompson
Refugio County, Texas
5 1/2" Long String 5324'

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented in the [illegible] of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

William H. Moody
Signature of Cementer or Authorized Representative

William H. Moody, Cementer
Name of Person and Title (type or print)

Halliburton Services
Cementing Company

Rt. 6 Box 452
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 575-1443
Area Code

9-17-81
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

G F Presson
*Signature of Operator or Authorized Representative

G. F. PRESSON
PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER
*Street Address or P.O. Box

CORPUS CHRISTI, TX 78476
*City, State Zip Code

*Telephone 512/887-2228
Area Code

MAR 9 1982
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules; unless the Form G-1 or W-2 is signed by the cementing company representative.
   (2) Each copy of Form W-3, unless the Form W-3 is signed by the cementing company representative.
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water by:
      1. Field Rule
      2. Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING: (See Item 4 above)
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING: (See Item 4 above)
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      1. the surface, or
      2. a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least [illegible] the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide forms, Special Rules may vary.)
   A. Cement to a point at least [illegible] above the casing shoe.
   B. When [illegible] pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING AND ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

FORM W-1
1/1/81

API Well No. 42-025-31543
Instruction (7a & b) on back side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

[ ] Directional Well [ ] Sidetrack [X] Amended Permit (Explain in Remarks)

RRC Permit Number, (if previously assigned) 119891

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: [X] DRILL [ ] DEEPEN (Below Casing) [ ] DEEPEN (Within Casing) [ ] PLUG BACK [ ] RE-ENTER

7. RRC District: 2

8. County: Bee

1. Operator: Exxon Corporation 257097

2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78476 MAR 00-7247

4a. Lease Name (32 Spaces Maximum): Laura D. Thomson "B"

4b. RRC Lease or ID No. (If unassigned):

9. Well Number: 16

5. Location (Sec., Blk., Survey): Garrett Roach (A-59)

10. Number of Contiguous Acres in Lease or Unitized Tract: 10500

6. This well is to be located 9.8 miles NE Direction from Skidmore, Texas Nearest Post Office or Town.

11. Distance from Proposed Location to Nearest Lease or Unit Line (ft.): 875

12. Total Depth: 5810

Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] NO [ ] (Instruction (2) on back side.)

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exce. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of completed, permitted or applied for, locations on this lease in same reservoir for which this permit is sought? OIL	GAS
13551 120 Burkes Ridge (Greta) 00052 000	2754	--	467-1200	40	40	No	--	Regular [X] Rule 37 [ ]	Oil or Gas	--	--
Wildcat Above	5810	--	467-1200	40	40	No	--	Regular [X] Rule 37 [ ]	Gas	--	0
Burkes Ridge (Vksbg 4800)	4813	--	467-1200	40	40	No	--	Regular [X] Rule 37 [ ]	Oil Gas	--	--
								Regular [ ] Rule 37 [ ]			

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED:
A. Lease Lines 875' from N. line and 7325' from E. line. Conc C
B. Survey Lines 15500' from S. line and 2150' from E. line.

25. (a) Is this wellbore subject to SWR 36? Yes [ ] No [X]
(b) If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.) [ ]

26. Do you anticipate future use of this wellbore to complete in any penetrated zone not listed in Column 13, for which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see Instruction #8. Yes [ ] No [X]

27. Is this a pooled unit? YES [ ] (Attach P-12, certified plat, & list of pooled zones) NO [X]

28. Substandard Acreage YES [ ] (Attach W-1A) NO [X]

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

REMARKS: Amend to expand objective. Original W-1 dated May 26, 1981. 2nd W-2 dated 03/01/82.

Signature: G. T. Presson

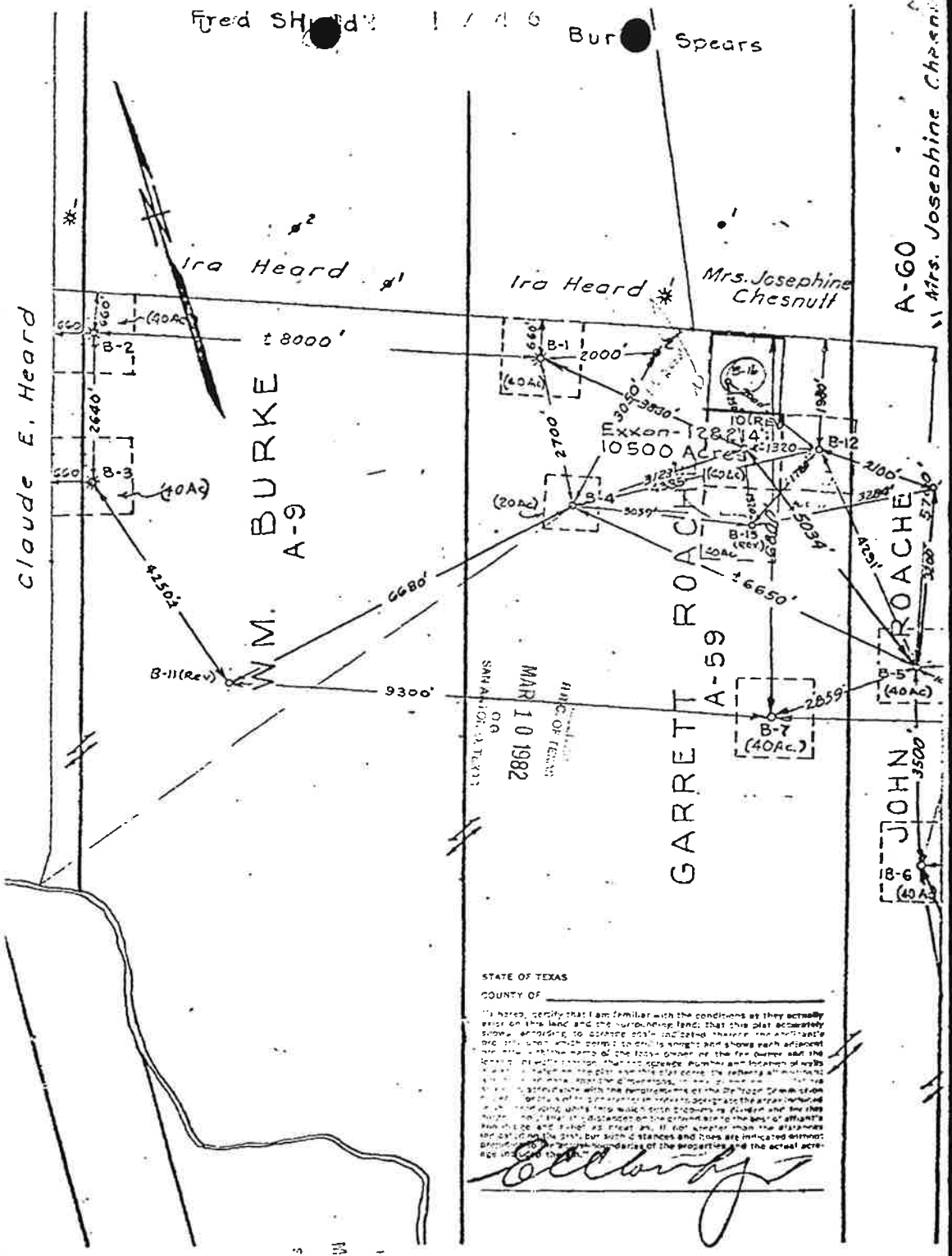
Title: G. T. Presson, Proration Specialist

Date: March 9, 1982

Telephone: Area Code 512 887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

025-31543



NOTE: All well units shown have 40 Acres unless otherwise noted.

Application for Location Well No. 16
Located 7325 ft. from E line
and 875 ft. from N line of Lease
Located 2150 ft. from E line
and 15500 ft. from S line of Survey
Distances are perpendicular to Lease/Survey

EXXON CO. U.S.A.–S.T.D.–R.R. COMM.

LAURA D. THOMSON "B" LEASE NO. 128214
BURKE'S RIDGE (GRETA) FIELD BEE CO.
GARRETT ROACHE (A-59) SURVEY 10500 AC.
SCALE: 1" = 2000' DATE: 2/26/82

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

FORM W-1
1/1/81

API Well No. 42 -025-31543
Instruction (7a & b) on back side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

[ ] Directional Well [ ] Sidetrack [X] Amended Permit (Explain in Remarks)

RRC Permit Number, if previously assigned. 119891

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one [X] DRILL [ ] DEEPEN (Below Casing) [ ] DEEPEN (Within Casing) [ ] PLUG BACK [ ] RE-ENTER

1. Operator
Exxon Corporation

2. Address (Including City and Zip Code)
Wilson Tower
Corpus Christi, Texas 78476

Is Form P-5 (Organization Report) to Exact Operator Name Filed?
YES [ ] NO [X] (Instruction (2) on back side.)

4a. Lease Name (32 Spaces Maximum)
Laura D. Thomson "B"

4b. RRC Lease or ID No. (if assigned)

5. Location (Sec., Blk., Survey)
Garrett Roach (A-59)

6. This well is to be located 9.8 miles NE Direction from Skidmore, Texas Nearest Post Office or Town.

7. RRC District
2

8. County
Bee

9. Well Number
116

10. Number of Contiguous Acres in Lease or Utilized Tract
10500

11. Distance from Proposed Location to Nearest Lease or Unit Line (ft.)
875

12. Total Depth
5810

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exc. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of completed, permitted or applied for, locations on this lease in same reservoir for which this permit is sought? OIL	GAS
13551 1120 Burkes Ridge (Greta)	2754	--	467-1200	40	40	No	--	Regular [ ] Rule 37 [X]	Oil or Gas	--	--
(XXX41 001 Wildcat Above	5810	--	467-1200	40	40	No	--	Regular [ ] Rule 37 [X]	Gas	--	-0
								Regular [ ] Rule 37 [ ]			
								Regular [ ] Rule 37 [ ]			

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED
A. Lease Lines 875' from N. line and 7325' from E. line
B. Survey Lines 15500' from S. line and 2150' from E. line

27. Is this a pooled unit? YES [ ] (Attach P-12, certified plat, & list of pooled zones) NO [X]

28. Substandard Acreage YES [ ] (Attach W-1A) NO [X]

25. (a) Is this wellbore subject to SWR 36? Yes [ ] No [X]
(b) If subject to SWR 36, has Form H-9 been filed? (If no, attach explanation.) [ ]

26. Do you anticipate future use of this wellbore to complete in any penetrated zone not listed in Column 13, for which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see Instruction #8. Yes [ ] No [X]

025-31543

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS Amend to expand objective. Original W-1 dated May 26, 1982.

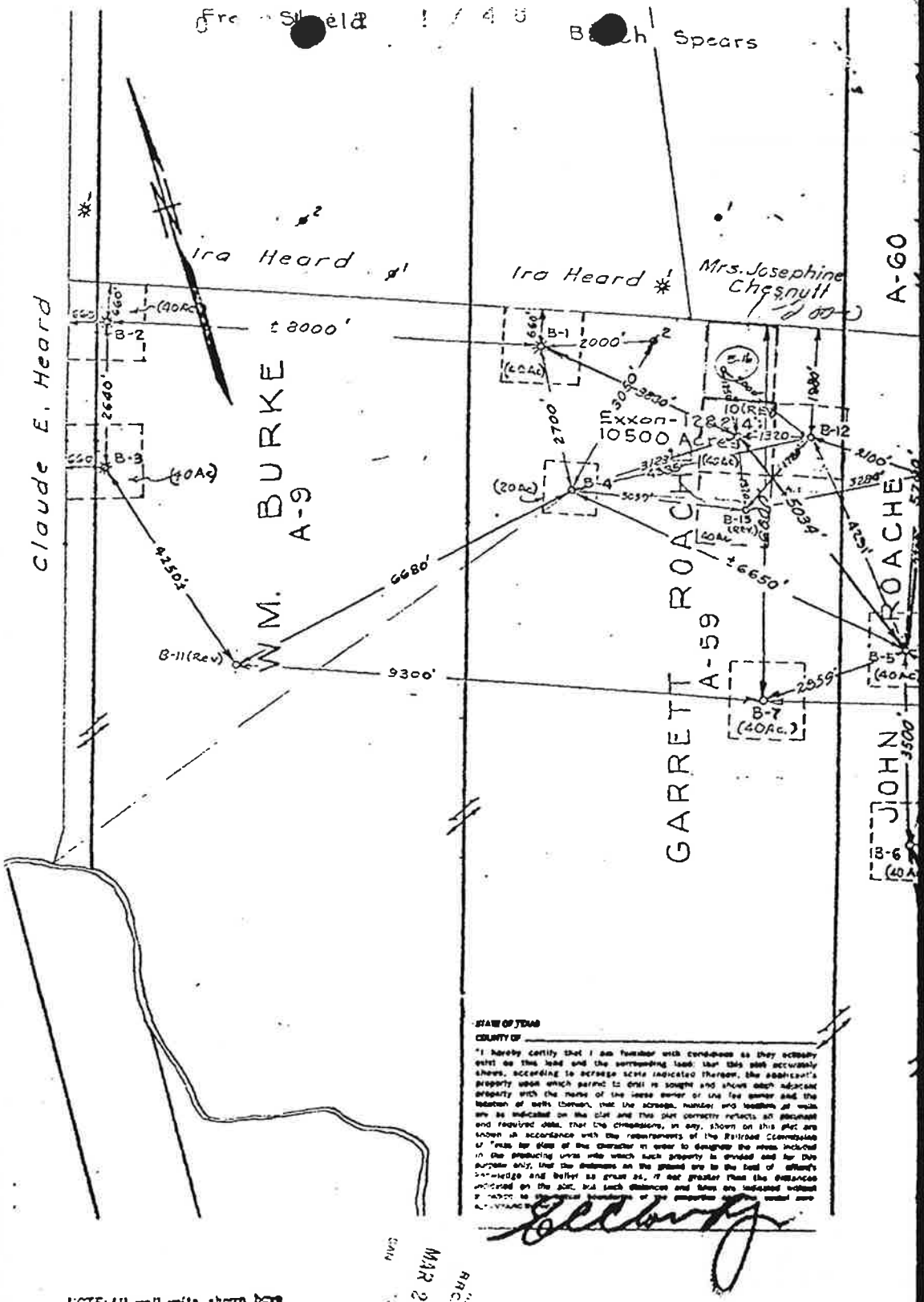
Signature G. F. Presson

Type G. F. Presson, Proration Specialist

Date March 1, 1982

Telephone: Area Code 512 887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.



STATE OF TEXAS
COUNTY OF _____

"I hereby certify that I am familiar with conditions as they actually exist on this land and the surrounding land; that this plat accurately shows, according to acreage scale indicated thereon, the applicant's property upon which permit to drill is sought and shows each adjacent property with the name of the lease owner or the fee owner and the location of wells thereon, that the acreage, number and location of wells are as indicated on the plat and this plat correctly reflects all pertinent and required data, that the dimensions, in any, shown on this plat are shown in accordance with the requirements of the Railroad Commission of Texas for plats of this character in order to designate the areas included in the producing units into which such property is divided and for this purpose only, that the distances on the ground are to the best of affiant's knowledge and belief as great as, if not greater than the distances indicated on the plat, but such distances and lines are indicated without [illegible] to the actual boundaries of the properties and the vertical [illegible]

[signature]

NOTE: All well units shown have 40 Acres unless otherwise noted.

Application for Location Well No. 16

Located 7325 ft. from E line
and 875 ft. from N line of Lease
Located 2150 ft. from E line
and 15,500 ft. from S line of Survey
Distances are perpendicular to Lease/Survey

RRC OF TEXAS
MAR 2 1982

EXXON CO. U.S.A.-S.T.D.-R.R. COMM

LAURA D. THOMSON "B" LEASE NO. 128214
BURKES RIDGE (GRETA) FIELD BEE CO
GARRETT ROACHE (A-59) SURVEY 10,500 AC
SCALE: 1" = 2000' DATE: 2/26/82

FORM W-1
(6/78)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

API Well No. 42 025-31543
Instruction (7a & b) on back side.

119891

[ ] Directional Well [ ] Amended or Corrected Permit

RRC Permit Number, if previously assigned.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: [X] DRILL [ ] DEEPEN (Below Casing) [ ] DEEPEN (Within Casing) [ ] PLUG BACK [ ] OTHER (Specify)

If Amended Application, explain fully in Remarks or Attach Separate Page.

1. Operator
Exxon Corporation

2. Address (Including City and Zip Code)
Wilson Tower
Corpus Christi, TX 78476

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES [X] NO [ ] (Instruction (2) on back side.)

4. Lease Name and RRC Lease or ID No. (If Assigned)
Laura D. Thomson "B"

5. Location (Sec., Blk., Survey)
Garrett Roach (A-59)

6. This well is to be located 9.8 miles NE
Direction from Skidmore, Texas
Nearest Post Office or Town.

7. RRC District
2

8. County
Bee

9. Well Number
16

10. Number of Acres in Lease
10500

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.)
875

12. Total Depth
5810

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	14. Completion Depth	15. All Prior Rule 37 Exc. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same field? (Yes or No. If yes explain in remarks.)	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested? OIL	GAS
0000-001											
Wildcat Above	5810	--	467-1200	40	40	No	--	Regular 1 [X] Rule 37 2 [ ]	Oil or Gas	--	--
								Regular 1 [ ] Rule 37 2 [ ]			
								Regular 1 [ ] Rule 37 2 [ ]			
								Regular 1 [ ] Rule 37 2 [ ]			

RECEIVED RRC OF TEXAS
MAY 27 1981

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED:
A. Lease Lines 875' from N. line and 7325' from E. line
B. Survey Lines 15500' from S. line and 2150' from E. line

25. (a) Is this wellbore subject to SWR 36? Yes [ ] No [X]
(b) If subject to SWR 36, has Form P-5 been filed? Yes [ ] No [ ]
(If no, attach explanation.)

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS:

G F Presson
Signature
G. F. Presson, Proration Specialist
Title
May 26, 1981
Date
Telephone: Area Code 512 887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

025 31543

MAP ID #38

API# 42-025-32826
GAS WELL
PLUGGED

MAP ID # 38

API # 025-32826

PLUGGED & ABANDONED

(38)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

Thompson Barrow #11 PERFS (1390-91)

API NO. (if available) 42025 32826

1 RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or Id. Number: 165142

2. FIELD NAME (as per RRC Records): Burkes Ridge (1600)

3. Lease Name: Thomson Barrow Corp

5. Well Number: 11

6. OPERATOR: C&E Operating, Inc.

6a. Original Form W-1 Filed in Name of:

10 County: Bee

7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77478

6b. Any Subsequent W-1's Filed in Name of

11. Date Drilling Permit Issued: 2/15/96

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 1239 Feet From north Line and 3354 Feet From east Line of the Thomson-Barrow Corp Lease

12. Permit Number: 462296

9a. SECTION, BLOCK, AND SURVEY: Garrett Rooche Grant A-59

9b. Distance and Direction From Nearest Town in this County: 9.2 miles NE from Skidmore

13 Date Drilling Commenced: 2/16/96

16. Type Well (Oil, Gas, Dry): Gas

Total Depth: 4909

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 2/25/96

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 6/14/01

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	6-14-01	6-14-01						
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8	2 7/8						
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1391	3						
*22. Sacks of Cement Used (each plug)	40	5						
*23 Slurry Volume Pumped (cu. ft.)	47.2	5.9						
*24. Calculated Top of Plug (ft.)	3							
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	15.6	15.6						
*27. Type Cement	A	A						

RECEIVED ... JUN 18 2001 ... AUSTIN, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	650	647	12 1/4
2 7/8	10.5	3001	2998	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	2727	TO	2744	FROM	TO
FROM	2040	TO	2042	FROM	TO
FROM	1598	TO	1600	FROM	TO
FROM	1390	TO	1391	FROM	TO
FROM		TO		FROM	TO

RECEIVED CENTRAL RECORDS SEP 12 2001 AUSTIN, TEXAS

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

South Central Cementers
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Barrin — REPRESENTATIVE OF COMPANY

President — TITLE

7/6/01 — DATE

Phone 361 — A/C

741-3600 — NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPED

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [ ] Yes [X] No

32. How was Mud Applied? Filled with cement

33. Mud Weight ____ LBS/GAL

34. Total Depth: 4909

Depth of Deepest Fresh Water: 1300

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: South Central Cementers, P.O. Box 967, Beeville, Texas 78104

Date RRC District Office notified of plugging: 6/13/01

38. Name(s) and Address(s) of Surface Owners of Well Site

Thomson-Barrow Corp.
5847 San Felipe, Suite 3830
Houston, Texas 77057

39. Was Notice Given Before Plugging to the Above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

Type or print only

483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

025-32826

Form G-1
Rev. 4/1/83

API No. 42-025-32826

RECEIVED
R.R.C. OF TEXAS
SEP 02 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (1600)	2. LEASE NAME: Thomson-Barrow Corp.
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.	RRC Operator No.: 120079
4. ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478	
5. Location (Section, Block, and Survey): Garrett Roache Grant A-59	5b. Distance and direction to nearest town in this county.: 9.2 miles NE form Papalote
6. If operator has changed within last 60 days, name former operator	12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil—O Gas—G / WELL #
13. Pipe Line Connection: Natural Gas Pipeline	
14. Completion or recompletion date: 7/30/97	15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☐ No
	16. Type of Electric or other Log Run.: Ind/ Den/ Neutron

7. RRC District No.: 02

8. RRC Gas ID No.: 165142

9. Well No.: #11

10. County of well site: Bee

11. Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

Section I — GAS MEASUREMENT DATA

Date of Test: 7/30/97

Gas Measurement Method (Check One): Orifice Meter [X] ▶ Flange Taps [X] Pipe Taps [ ] | Positive Choke [ ] | Orifice Vent Meter [ ] | Pitot Tube [ ] | Critical-flow Prover [ ]

Gas produced during test: 25 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.067	.500	1573.95	335	59.0	80	.9813	1.0084	1.0245	224
2	2.067	.500	1573.95	335	35.0	80	.9813	1.0084	1.0245	173
3	2.067	.500	1573.95	335	18.0	80	.9813	1.0084	1.0245	124
4	2.067	.500	1573.95	335	8.0	80	.9813	1.0084	1.0245	83

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.590	-- Deg. API	DRY CF/Bbl	G_{mix} = .590	91 °F	106°F @ 1599 (Depth)

$D_{eff}^{8/3} = 10.802$

$\sqrt{T_f} = \sqrt{555} = 23.56$

$\sqrt{GL} = \sqrt{943.41} = 30.72$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{(1118)(10.802)}{23.56} = 513$

$\sqrt{GL} / C = 30.72 / 513 = .0599$

Return to Records Retention

Run No.	Time of Run Min.	Choke Size	Wellhead Press. P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)		R^2 (Thousands)	P_1	P_w/P_1
Shut-In			665	75	442				
1	60	8/64	635	85	403	13.4	.2	635	1.0000
2	60	7/64	642	84	412	10.4	.1	642	1.0000
3	60	6/64	648	83	420	7.4	.1	648	1.0000
4	60	5/64	655	82	429	5.0	.1	655	1.0000

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		.0321	1.0956	1.0358	689	475	
1	1.0000	.0319	1.0905	1.0354	657	432	43
2	1.0000	.0319	1.0910	1.0354	665	442	33
3	1.0000	.0319	1.0914	1.0354	671	450	25
4	1.0000	.0319	1.0919	1.0354	678	460	15

Angle of Slope
θ ..45.0.....
n ..1.0000....

Absolute Open Flow
...2450.. MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature, Well Tester: [signature] | TARGET WELL SERVICES, INC. (Name of Company) | RECORD CODIFICATION (RRC Representative)

DEC 23 1997

OPERATOR'S CERTIFICATION. I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature Operator's representative: [signature] | Terry L. Boening | President (Title) | 8/28/97 (Date) | Tel. 281/ 265-6500 (A/C Number)

HS

MAPPING

VALID PERMIT
PRODUCTION ALLOCATION 7B

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

NOV 3 DATE 1997

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen 5/14/97 PERMIT NO. 462296
Rule 37 Exception CASE NO.
Water Injection Permit PERMIT NO.
Salt Water Disposal Permit PERMIT NO.
Other PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5,826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 6/2/97 Completed 7/30

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1239 Feet From North Line and 3354 Feet from East Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 121.2'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay	28. Total Depth	29. P. B. Depth	30. Surface Casing Determined by:
1598	4909'	2200'	Field [ ] Recommendation of T.D.W.R. [ ] Dt. of Letter
			Rules Railroad Commission (Special) [X] Dt. of Letter 5/15/97

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools XXX Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? [XX] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	645	-	295 sx A	12 1/4	surface	552
2 7/8"	10.5	3001	-	795 sx H	7 7/8	*surface	1162

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 7/8"	Tubing Less	

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1598	To	1600
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
2740-2744	Perf 4 SPF
1660	CIBP
1598-1600	Perf 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	2745'		

REMARKS * Did not circulate cmt. to surface on 2 7/8" csg. Bond log showed top of cmt. @ ± 700'. Pumped 125 sx A down annulus.

Cementer Fill in shaded areas
Operator Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3. RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7 Drilling Permit No**
Burkes Ridge (1600)		42- 025-32826	462296
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Thomas-Barrow Corp.		16542	# 11

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		06/04/97					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		25					
14 Size of casing (in O D)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		645					
17 Number of centralizers used		6					
18 Hrs. waiting on cement before drill-out		19					
1st Slurry	19 API cement used· No. of sacks ▶	185					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt					
2nd Slurry	No. of sacks ▶	110					
	Class ▶	A					
	Additives ▶	$CaCl_2$					
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped· Volume (cu ft) ▶	412					
	Height (ft) ▶	999					
2nd	Volume (cu ft) ▶	140					
	Height (ft) ▶	339					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶	552					
	Height (ft) ▶	1338					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

T.N.R.C.C. LETTER DATED 5-9-97
Depth 1300' ft.
13(A) 5-15-97
Surface Casing 600' ft.
D.V. @ ft.

RECEIVED
R.R.C. OF TEXAS
SEP 02 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG #'8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Ron Schul, Service Suprv.	BJ Services Company		
Name and title of cementer's representative	Cementing Company	Signature	

411 Hartman Road	Victoria, TX 77905	512/575-6446	06/04/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge This certification covers all well data

Terry L. Boening	President	Terry L. Boening	
Typed or printed name of operator's representative	Title	Signature	

13333 Southwest Freeway, #105	Sugar Land, TX 77478	281/265-6500	8/ 28/ 97
Address	City, State, Zip Code	Tel. Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging) For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form Form W-15 should be filed with the following.

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion, and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar All centralizers must meet API specifications

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13 In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No	3. RRC District No	4. County of Well Site
C & E Operating , Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7 Drilling Permit No**
Burkes Ridge (1600)		42- 025-32826	462296
8 Lease Name	**9 Rule 37 Case No**	**10. Oil Lease/Gas ID No**	**11 Well No**
Thompson-Barrow Corp.		65142	# 11

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date				6/12/97			
13 •Drilled hole size				7 7/8			
•Est % wash or hole enlargement				15			
14 Size of casing (in O.D.)				2 7/8			
15 Top of liner (ft.)							
16 Setting depth (ft.)				3001			
17 Number of centralizers used				14			
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used. No of sacks ▶			245			
	Class ▶			A			
	Additives ▶			Poz,Gel,Salt			
2nd Slurry	No of sacks ▶			550			
	Class ▶			H			
	Additives ▶			Salt,ASA-301,FL25			
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped. Volume (cu. ft.) ▶			502			
	Height (ft.) ▶			1712			
2nd	Volume (cu ft.) ▶			660			
	Height (ft.) ▶			2251			
3rd	Volume (cu ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu ft.) ▶			1162			
	Height (ft.) ▶			3963			
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?				NO			

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R.R.C. OF TEXAS
SEP 02 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29 Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Ron Schul, Service Supervisor	BJ Services Co.		
Name and title of cementer's representative	Cementing Company	Signature	

411 Hartman Road	Victoria, TX 77905	512/575-6446	06/12/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge This certification covers all well data

Terry L. Boening	President	Terry L. Boening	
Typed or printed name of operator's representative	Title	Signature	

13333 Southwest Freeway, #105	Sugar Land, TX 77478	281/265-6500	8/ 28/ 97
Address	City, State, Zip Code	Tel. Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13 In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P O Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☒ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32826; Permit No. 462296 AMA; Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478 — 8-18-97 — 953535

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 11
9. Total Depth: 6000'

10. Location
• Section _____ Block _____ Survey Garrett Roache ~~Grant~~ Abstract No. A-59
• This well is to be located 9.2 miles in a NE direction from Skidmore which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 1239 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 5826.49 (OUTLINE ON PLAT.)

Amended 8-19-97

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Burkes Ridge (1600) 135516.00	1600'	467/1200	40	40	No	N/A	G		1
Burkes Ridge (VKSBG 4800) 135516.00	4800'	467/1200	40	40	No	N/A	G		1
Wildcat (Above 6000') 9001	6000'	467/1200	40	40	No	N/A	O/G	1	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1239 ~~ENL~~ & 3354 ~~FEL~~ FSEL Code A1200
• Survey/Section 15,332 ~~FSL~~ ~~(River)~~ & 1705 FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

Remarks

Amended to include Burkes Ridge (1600)

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L Boening — Terry L. Boening/ President
Signature — Name and title of operator's representative

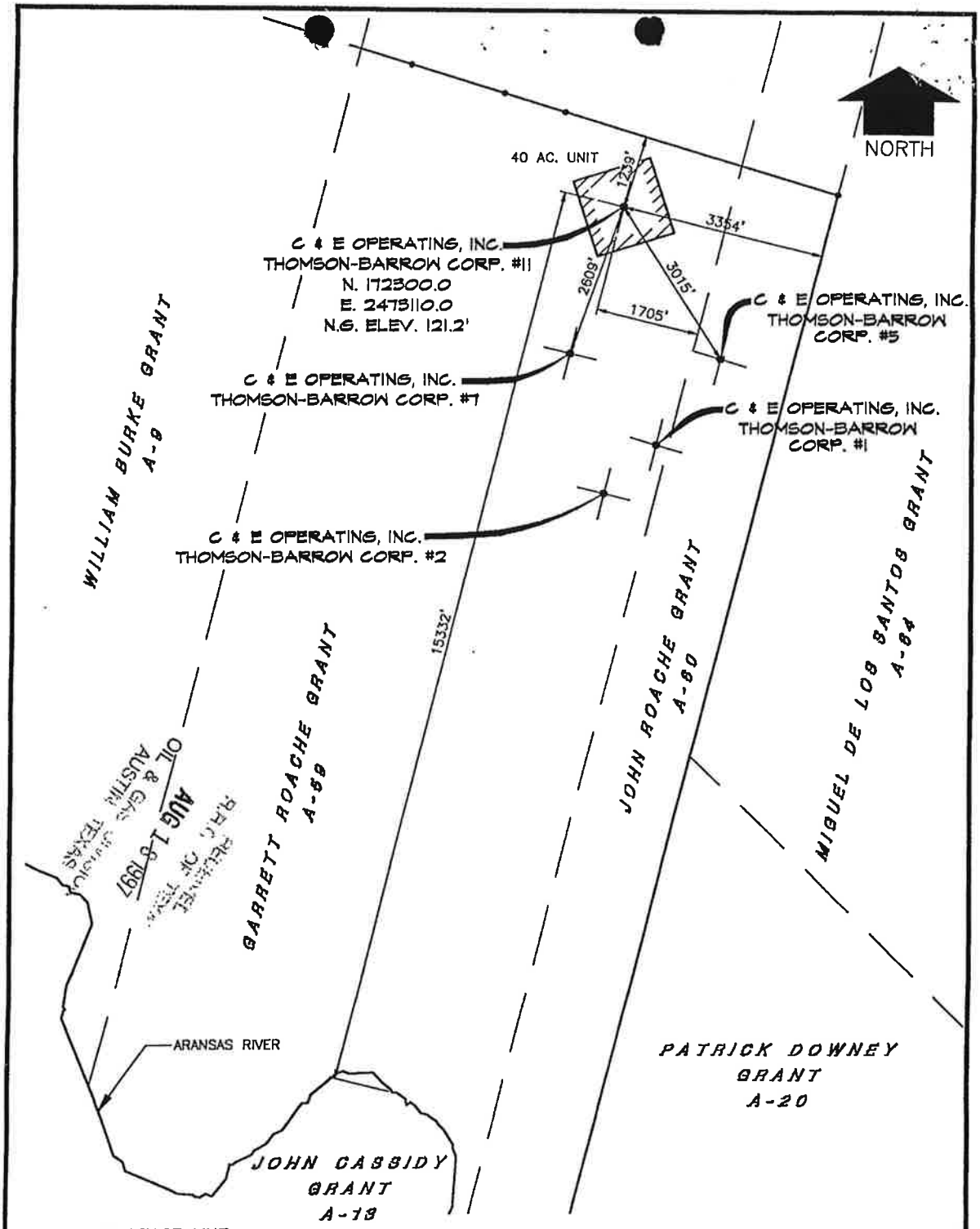
Date: 8 mo. 15 day 97 yr. Tel. Area Code Number: 281/265-6500

$150 APP $50 EXP 216038 AUG 1897

• RRC Use Only •

462296

025-32826



TIES TO LEASE LINE
1239' FNL
3354' FEL

TIES TO SURVEY LINES
15332' FSL
1705' FEL

DISTANCE FROM NEAREST TOWN
13 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MAY 1, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

5-6-97
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #11
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG. No. :	9773-501
SCALE :	1" = 2000'
DATE :	5/97
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

▶ Address to: Railroad Commission of Texas, Oil and Gas Division, Drilling Permits, P. O. Box 12967, Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32826 Permit No. 462296

Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 11
9. Total Depth: 6000'

10. Location
• Section _____ Block _____ Survey Garrett Roache Grant Abstract No. A- 59
• This well is to be located 9.2 miles in a NE direction from Skidmore which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 1239 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6000') 4001	6000'	467/1200	40	40	No	NA	O/G	1	1
Burkes Ridge (Vskbg 4800)	4800	467/1200	40	40	No	NA	G	0	1
13551500	Code A	1200							

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1239' FNL & 3354' FEL Code O 18000
• Survey/Section 15332' ~~FSL~~ & 1705' FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? FS(River)L
Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X]
If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening Terry L. Boening President
Signature Name and title of operator's representative

5/8/97 281 265-6500
Date: mo. day yr. Tel.: Area Code Number

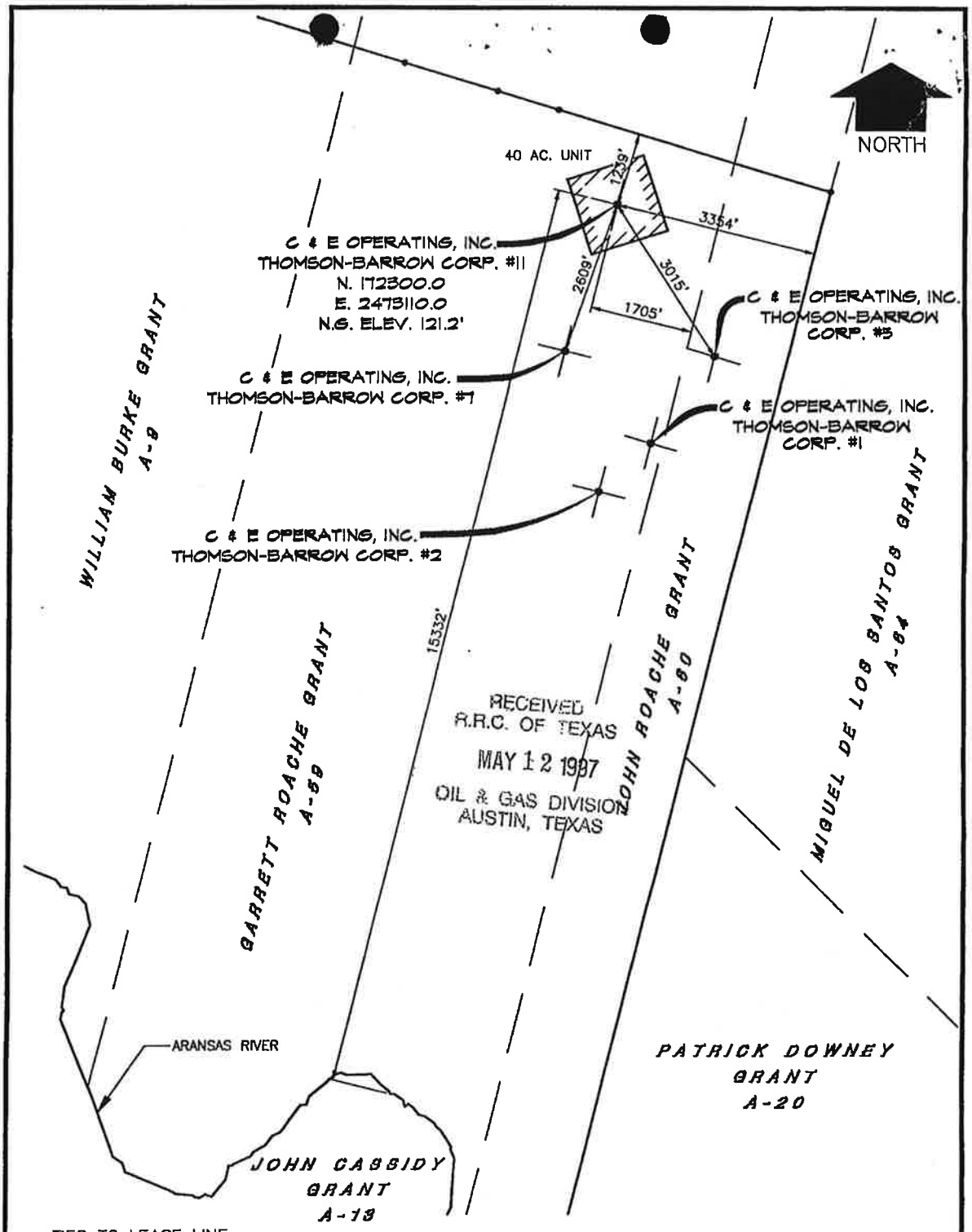
150 APP BEP 150

211475 MAY 1297

• RRC Use Only •

462296

025-32826



TIES TO LEASE LINE
1239' FNL
3354' FEL

TIES TO SURVEY LINES
15332' FSL
1705' FEL

DISTANCE FROM NEAREST TOWN
13 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MAY 1, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

5-6-97
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #11
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG. No. :	9773-501
SCALE :	1" = 2000'
DATE :	5/97
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

MAP ID #39

API# 42-025-33445
GAS WELL

```
DISTRICT> 02      GAS WELL DATA INQUIRY - PAGE 1      SCHEDULE  > 04 / 14
FIELD   > BURKES RIDGE (VKSBG 4800)        # 13551 500 TYPE FIELD> ONE WELL
OPERATOR> AURORA RESOURCES CORPORATION     # 036931   DRILL PMT > 629995
LEASE   > ARC - THOMSON - BARROW                      API #     > 025 33445
COUNTY  > BEE            RRCID 229827 WELL #    3     ALLOW EFF > 04/01/2014
TYPE WELL> PRODUCING                                  TOP ALLOW >
OFFSHORE>    BAYS/EST    STATE                        CYCL ALLOW>
OP LACK>
OTHER  >                                  NO G-10 TEST REQUIRED
SCHED REM > WELL SUBJECT TO 14B2 EFFECTIVE  10/01/2008 - WELL SUBJECT TO 14B2
                                                       CAPABILITY>         0
"@" AMOUNT> 999999999   DATE> MM/YYYY   HIGH DLY AVG> 999999999   DATE> MM/YYYY
SPEC ALLOW >        100  CODE> ADMINISTRATIVE
G-10 TEST  >  10/04/2008 TYPE >  E LAST UTIL>         G-1 TEST >    04/07/2007
DELIV      >          2  DELIV LTR EFFEC>           G-1 POTE   >  NOT REQ.
DELIV CODE > DEL < 250   CAL DEL POTE   >           TEMPERATURE>        160
WH PRESS CD>             SIWH>   1751   BHP CD>           BHP >
GAS GRAV   >   .575      COND GRAV  >  42.4          GOR        >    7500
ACRES-FT   >             ACRES      >               G1 TEST GAS>        1125
SUPP ISSUED>  03/17/2014   SUPP REMARKS  >

GO TO RRCID <         > ENTER=PG2 PF1=HELP          PF3=DRL PMT PF4=RESTART
PF5=NEXT WELL PF6=FLD PF7=PROR SCH PF8=P4 PF9=LDGR PF10=G-10 PF11=RMKS PF12=G-1
```

Type or print only

483-047

ORIGINAL

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42-025-33445

7. RRC District No. 2

8. RRC Gas ID No. 229827

Gas Well Back Pressure Test, Completion or Recompletion Report and Log

1. FIELD NAME (as per RRC Records or Wildcat): BURKES RIDGE (WKSBG 4800)

2. LEASE NAME: ARC - Thompson Barrow

9. Well No. 3

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): Aurora Resources Corporation

RRC Operator No. 036931

10. County of well site: Bee

4. ADDRESS: 600 Leopard Street, Suite 2015, Corpus Christi, Texas 78473

11. Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): G. ROACHE A-59

5b. Distance and direction to nearest town in this county: 4.5 MILES S.E. SKIDMORE

6. If operator has changed within last 60 days, name former operator:

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

13. Pipe Line Connection: COPANO FIELD SERVICES

14. Completion or recompletion date: 3-10-07

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16. Type of Electric or other Log Run: IES

Section I — GAS MEASUREMENT DATA

Date of Test: 04/07 - 04/10/07

Gas Measurement Method (Check One): Orifice Meter [X] Flange Taps [X] Pipe Taps [ ] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 1125 MCF

Run No.	Line Size	Orif or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Gas Rate MCF / DAY
1	2.067	0.625	2470.78	715	29.90	88	0.9741	1.0215	1.0435	375
2										
3										
4										

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydrocarbon Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.5750	42.47 Deg. API	750,000 CF/Bbl	G_{mix} = 0.5790	117 °F	160 °F @ 4795 ft (Depth)

$(D_{eff})^{8/3}$ = 6.307

$\sqrt{T_f}$ = $\sqrt{587}$ = 24.23

$\sqrt{GL}$ = $\sqrt{2776.784}$ = 52.695

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 1118 x 6.307 / 24.23 = 291.035

$\frac{\sqrt{GL}}{C}$ = 52.695 / 291.035 = 0.1811

Run No.	Time of Run Minutes	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w / P_1
Shut-In	24 hrs	SI	1751	74	3066.0	0.0	0.0000	1751	1.0000
1	4320	7/64	1590	95	2528.1	67.9	4.6121	1591	0.9994
2									
3									
4									

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (Thousands)	$P_f^2 - P_s^2$ (Thousands)
Shut-In	1.0000	0.0902	1.1629	1.1106	1945	3783	
1	0.9997	0.0887	1.1417	1.1065	1760	3098	685
2							
3							
4							

Angle of Slope: Θ = 45.00°

n = 1.0000

Absolute Open Flow: 2,070 MCF/DAY

RECEIVED
CENTRAL RECORDS
OCT 15 2007
AUSTIN, TEXAS

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester — Aurora Resources Corp. (Name of Company) — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: Operator's representative — President (Title) — 4-16-07 (Date) — Tel: 361 882-3787 (A/C Number)

PM 7/3/07

VALID PERMIT SEP 20 2007 April 9-1-07

Section III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE: 12-05-06 — PERMIT NO.: 629995
Rule 37 Exception — CASE NO.:
Water Injection Permit — PERMIT NO.:
Salt Water Disposal Permit — PERMIT NO.:
Other — PERMIT NO.:

19. Notice of Intention to Drill this well was filed in the Name of: AURORA RESOURCES CORPORATION

20. Number of producing wells on this lease in this field (reservoir) including this well: 0

21. Total number of acres in this lease: 160 ACRES

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 3-1-07; Completed 3-10-07

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 605 Feet From SOUTH Line and 1173 Feet From WEST Line of the THOMSON - BARROW Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 123.8

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay: 4790

28. Total Depth: 5240

29. P. B. Depth: 5200

30. Surface Casing Determined by: Field Rules [ ]; Recommendation of T.D.W.R. [X] Dt. of Letter 12-05-06; Railroad Commission (Special) [ ] Dt. of Letter 3/12/07

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-O Gas-G	Well #

33. Intervals Drilled by: Rotary Tools [X]; Cable Tools [ ]

34. Name of Drilling Contractor: SCORPION E+P

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
4.5"	10.5	5226	1820	430SXS	7 7/8	SURF	834
				875SXS	7 7/8	1900	844
8 5/8	24#	338		150SXSA	12 1/4	SURF	

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	4700'	4700

39. Producing Interval (this completion) indicate depth of perforation or open hole

From	4792 ft	To	4798 ft (MD)
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4792'-4798'	6 JSPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
GRETA	2850		
CATAHOULA	1700		

REMARKS:

Cementer: Fill in shaded areas.
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3 RRC District No	4 County of Well Site
Aurora Resources	036931	2	Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7 Drilling Permit No
Burkes Ridge (Vksg 4800)	42-025-33445	629995

8 Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No	11. Well No
ARC Thomson-Barrow			3

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		2-27-07	WATER BOARD LETTER DATED			12/5/06	
13 •Drilled hole size		12 1/4	Depth 0-700, 1100				
•Est % wash or hole enlargement			13(A) Exception Dated 3/12/07				
14 Size of casing (in O.D.)		8 5/8	Surface Casing		700		ft.
15 Top of liner (ft.)			U.Y. S		N/A		ft.
16 Setting depth (ft.)		350					
17 Number of centralizers used		4					
18 Hrs. waiting on cement before drill-out		8					
1st Slurry	19. API cement used: No. of sacks ▶	355					
	Class ▶	H					
	Additives ▶	2% cacl2					
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped Volume (cu. ft.) ▶	397.6					
	Height (ft.) ▶	963					
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	397.6					
	Height (ft.) ▶	963					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

22 Remarks

PM 2/9/07

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Dion Schmoldt operator — Royal Services — Dion Schmoldt

Name and title of cementer's representative — Cementing Company — Signature

PO Box 1329 Bellaire TX 77402-1329 — 713 661-4747 — 6 6 2007

Address — City, State, Zip Code — Tel.: Area Code Number — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

B. Scott Hines — President

Typed or printed name of operator's representative — Title — Signature

600 LEOPARD ST STE 1012 CORPUS CHRISTI TX 78473 — 361 882-3787 — 6-28-07

Address — City, State, Zip Code — Tel.: Area Code Number — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form W-15, **in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations

Cementer: Fill in shades areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1. Operator's Name (As shown of Form P-5, Organization Report	2. RRC Operator No.	3. RRC District No.,	4. County of Well Site
AURORA RESOURCES CORPORATION	036931	2	BEE

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
BURKES RIDGE (VKSBG 4800)	42-025-33445	629995

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
9. ARC Thomson-Barrow Ranch	10.		12. #3

CASING CEMENT DATA:	SURFACE	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date					2/22/07	2/22/07
13. • Drilled hole size					7 7/8	
• Est. % wash or hole enlargement					10%	
14. Size of casing (in. O.D.)					4 1/2	
15. Top of liner (ft.)						
16. Setting Depth				X	1820	5226
17. Number of centralizers used					40	20
18. Hrs. Waiting on cement before drill out					NA	
1st Slurry — 19. API cement used: No. of sacks						435
1st Slurry — Class						A
1st Slurry — Additives	15:85:6(POZ:CLASS A:GEL)+5%SALT+0.35%R-3+0.25 PPS CELLOFLAKE					
2nd Slurry — No. of sacks						440
2nd Slurry — Class						A
2nd Slurry — Additives	50:50:2(POZ:CAP A:GEL)+3% KCL+0.5% FL-25+0.25%CD-32+0.1%ASA-301+0.3% SM					
3rd Slurry — No. of sacks					430	
3rd Slurry — Class					A	
3rd Slurry — Additives	15:85:6(POZ:CLASS A:GEL)+3% SALT+0.25pps CELLOFLAKE					
1ST — 20. Slurry pumped: Volume (cu.ft.)						843.9
1ST — Height (ft.)						3704.7
2ND — Volume (cu.ft.)						536.8
2ND — Height (ft.)						2356.5
3RD — Volume (cu.ft.)					834.2	
3RD — Height (ft.)					3647	
Total — Volume (cu.ft.)					834.2	1380.7
Total — Height (ft.)					3647	6061
21. Was cement circulated to ground surface (or bottom of cellar) outside casing					YES	

22. Remarks

1070

P.S

7/3/07 PM

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type of cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code that I am authorized to make this certification,, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed me by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Wesley Long Service Supervisor	BJ Services Company	
Name and title of cementer's representative	Cementing Company	Signature

411 Hartman Road	Victoria	Texas 77905	361-575-6446	02/22/2007
Address	City,	State, Zip Code	Tel.: Area Code Number	Date: mo day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct,, and complete, to the best of my knowledge. This certification covers all well data.

B. Scott Hines	President	B Scott H
Typed or printed name of operator's representative	Title	Signature

600 Leopard St. Ste 2015	Corpus Christi TX 78473	361 882-3787	6-29-07
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing Cementing, Drilling and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by The Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper that 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be place every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirments of Statewide Rule 13. In written application, an operator must state the reason for the requested exception and outline an alternate program for casing through the production depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations!

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Enter if Assigned API No · 42- 025- 33445 Drilling Permit No 629995 Rule 37/38 Case No ·	RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE OR RE-ENTER	FORM W-1 EFF 10/04 Drilling Permit Fee Based on Depth: 0'-2000' $200 2001'-4000' $225 4001'-9000' $250 >9000'- $300 Expedited Service Fee ADD $150 Rule 37/38 Exception Fee ADD $200

1 RRC Operator No ·	2 Operator Name (as shown on P-5 Organization Report) ·	3. Operator Address (include street, city, state, zip)
036931	AURORA RESOURCES CORPORATION	600 LEOPARD ST. STE 1012 CORPUS CHRISTI TX 78473
4 Lease Name · ARC - THOMSON BARROW	5 Well No 3	

GENERAL INFORMATION

6 Purpose of Filing (Mark ALL appropriate boxes) ☐ New Drill ☐ Recompletion ☐ Reclass ☐ Field Transfer ☐ Re-enter ☒ Amended ☐ Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (Mark ALL appropriate boxes): ☒ Vertical ☐ Horizontal (Also File Form W-1H) ☐ Directional (Also File Form W-1D) ☐ Sidetrack

8 Total Vertical Depth. 5200

9 Do you have the right to develop minerals under any right of way? ☒ Yes ☐ No

10 Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? ☐ Yes ☒ No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No 02

12 County BEE

13 Surface Location ☒ Land ☐ Bay/estuary ☐ Inland waterway ☐ Offshore

14 This well is to be located 4.5 miles in a SE direction from SKIDMORE, which is the nearest town in the county

15. Section	16 Block	17. Survey	18 Abstract No	19 Distance to nearest lease line	20 Number of contiguous acres in lease, pooled unit or unitized tract
		G. ROACHE	59	605	160

21 Lease Perpendiculars 605 ft from the N line and 1173 ft from the W line

22 Survey Perpendiculars 2270 ft from the E line and 13690 ft from the _____ line

23 Is this a pooled unit? ☐ Yes ☒ No

24 Unitization Docket No _____

25 Are you applying for Substandard Acreage Field? ☐ Yes (attach Form W-1A) ☒ No

FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line. Attach an additional Form W-1 if you require more space.

26. RRC District No	27 Field No	28 Field Name (exactly as shown in RRC records)	29. Well Type	30 Completion Depth	31 Distance to Nearest Well in this Lease & Reservoir	32. No of Wells on this Lease in this Reservoir
02	13551500	BURKES RIDGE (VKSBG 4800)	G	4850	NA	1

RECEIVED RRC OF TEXAS JUL 02 2007 OIL & GAS DIVISION

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS – Attach FORM W-1D/FORM W-1H as appropriate

Remarks:

ADD FIELD

CAUTION
THE RAILROAD COMMISSION OF TEXAS HAS NOT APPROVED THIS DOCUMENT NOR ANY ATTACHMENTS AND DUPLICATION OR DISPERSMENT OF INFORMATION AT THE USERS OWN RISK

RRC Use only

CERTIFICATE.

I declare under penalties in Sec 91 143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge.

B. Scott Hines	[signature]	6-29-07
Name of Representative (Print)	Signature	Date (mm/dd/yy)
361 882-3787		
Telephone (AC and number)	E-mail Address (OPTIONAL – If provided, e-mail address will become part of this public record.)	

API No. 42-025-33445
Drilling Permit # 629995
SWR Exception Case/Docket No.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

FORM W-1 07/2004

Permit Status: Approved

1. RRC Operator No.	2. Operator's Name (as shown on form P-5, Organization Report)	3. Operator Address (include street, city, state, zip):
036931	AURORA RESOURCES CORPORATION	

4. Lease Name	5. Well No.
ARC - THOMSON - BARROW	3

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [X] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth	9. Do you have the right to develop the minerals under any right-of-way ?	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)?
5200	[X] Yes [ ] No	[ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.	12. County	13. Surface Location
02	BEE	[X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 4.5 miles in a SE direction from SKIDMORE which is the nearest town in the county of the well site.

15. Section	16. Block	17. Survey	18. Abstract No.	19. Distance to nearest lease line:	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
		ROACHE, G	A-59	605 ft.	160

21. Lease Perpendiculars: 605 ft from the N line and 1173 ft from the W line.

22. Survey Perpendiculars: 2270 ft from the E line and 13690 ft from the N (CREEK) line.

23. Is this a pooled unit?	24. Unitization Docket No:	25. Are you applying for Substandard Acreage Field?
[ ] Yes [X] No		[ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION **List all fields of anticipated completion including Wildcat. List one zone per line.**

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	13551500	BURKES RIDGE (VKSBG 4800)	Gas Well	4850	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks

[FILER Aug 2, 2007 10:31 AM]: Approvers verify Lease Name . Amended permit to add field.

Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

< Mail in Application > — Name of filer

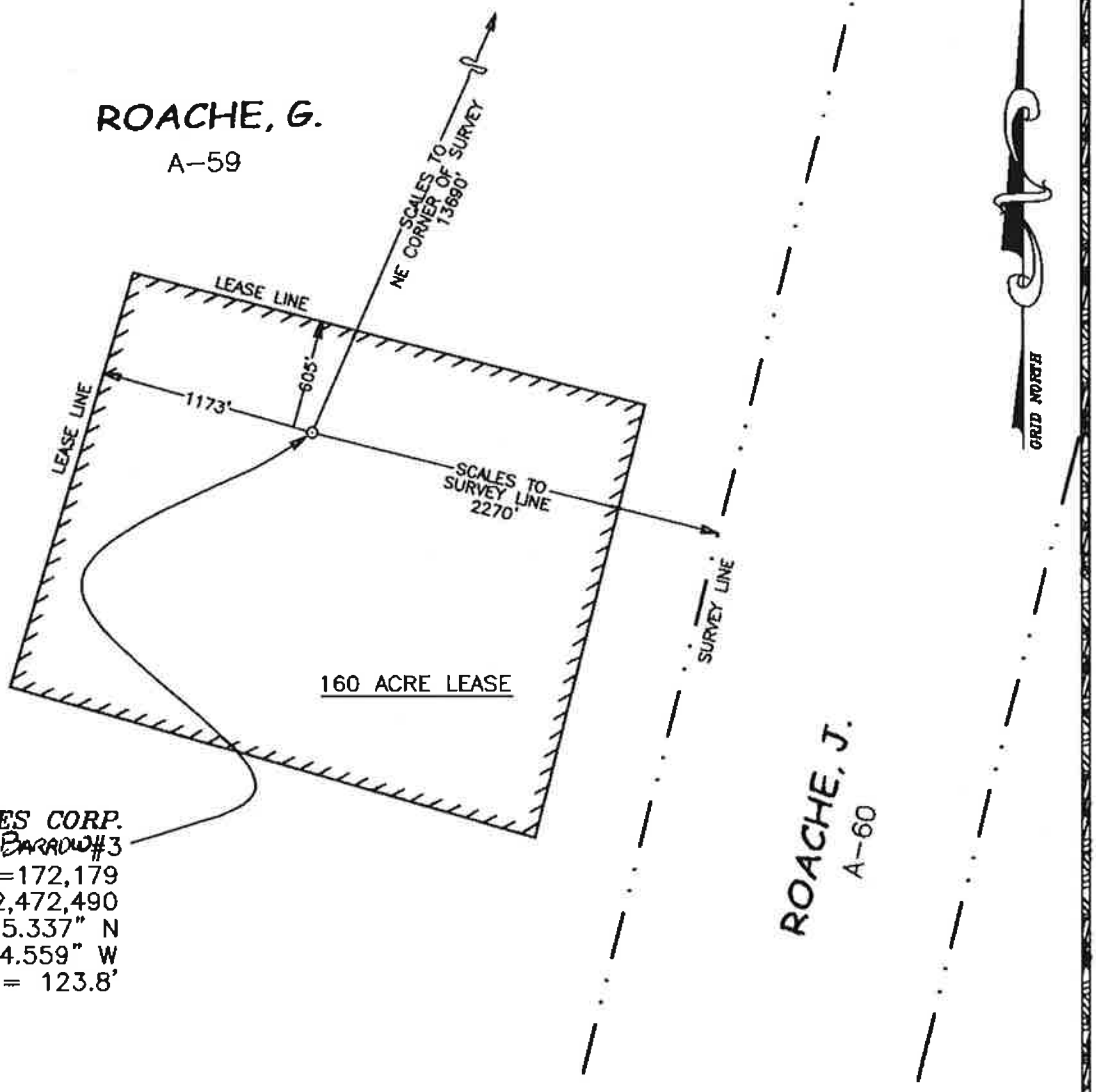
Aug 02, 2007 — Date submitted

Phone

E-mail Address (OPTIONAL)

RRC Use Only Data Validation Time Stamp: Sep 7, 2007 10:56 AM('As Approved' Version)

629995



AURORA RESOURCES CORP.
ARC-Thomson-Barrow#3
Y=172,179
X=2,472,490
LAT. = 28°17'55.337" N
LONG. = 97°31'54.559" W
GND. ELEV. = 123.8'

500 0 500 1000 1500 2000 2500 3000

SCALE: 1" = 1000 FEET

SURVEYOR NOTES:

1. COORDINATES SHOWN ARE BASED ON TEXAS STATE PLANE COORDINATE SYSTEM OF 1927, TEXAS SOUTH CENTRAL ZONE & ARE BASED ON MONUMENT "MOSS" (Y = 176,499.14 X = 2,473,675.17)
2. LATITUDE & LONGITUDE ARE NAD 27 GEOGRAPHIC
3. ALL LEASE & TRACT INFORMATION SHOWN HEREON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY AND THE UNDERSIGNED SURVEYOR DOES NOT WARRANT TO THE ACCURACY THEREOF.

I HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS THE SUBJECT LOCATION AS STAKED ON THE GROUND NOVEMBER 16, 2006.

JARREL L. MOORE
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 4854

STATE OF TEXAS
REGISTERED
JARREL L. MOORE
4854
PROFESSIONAL
LAND SURVEYOR

PLOT DATE: 11-21-06 4:45 PM

PLAT OF:

FRONTIER SURVEYING

A WELL LOCATION FOR:

AURORA RESOURCES CORP.

ARC-Thomson-Barrow #3

SITUATED IN THE G. ROACHE SURVEY, A-59, APPROXIMATELY 4.5 MILES EAST SOUTHEAST OF SKIDMORE IN BEE COUNTY, TEXAS

JOB #: 0611047

Completion Date: 11/16/06		File Name:	0611047.dwg
Scale: 1" = 1000'		Surveyed by:	WM
Drawn by:	MT	Checked by:	JLM

FRONTIER SURVEYING COMPANY
SERVICES: LAND SURVEYING/LOCATIONS/PIPELINES/MAPPING/GPS/GIS
710 BUFFALO STREET, SUITE 401, CORPUS CHRISTI, TEXAS, 78401
PHONE: (361) 881 - 8044 FAX: (361) 881 - 8340
www.frontiersurveying.com

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API No. 42-025-33445
Drilling Permit # 629995
SWR Exception Case/Docket No.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC.
A certification of the automated data is available in the RRC's Austin office.

FORM W-1 07/2004

Permit Status: Approved

1. RRC Operator No.: 036931
2. Operator's Name (as shown on form P-5, Organization Report): AURORA RESOURCES CORPORATION
3. Operator Address (include street, city, state, zip): THE 600 BLDG STE 2015, 600 LEOPARD ST, CORPUS CHRISTI, TX 78473
4. Lease Name: ARC - THOMSON - BARROW RANCH
5. Well No.: 3

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [X] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth: 5200

9. Do you have the right to develop the minerals under any right-of-way ? [X] Yes [ ] No

10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? [ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.: 02
12. County: BEE
13. Surface Location [X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 4.5 miles in a SE direction from SKIDMORE which is the nearest town in the county of the well site.

15. Section	16. Block	17. Survey	18. Abstract No.	19. Distance to nearest lease line:	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
		ROACHE, G	A-59	605 ft.	160

21. Lease Perpendiculars: 605 ft from the N line and 1173 ft from the W line.
22. Survey Perpendiculars: 2270 ft from the E line and 13690 ft from the N (CREEK) line.

23. Is this a pooled unit? [ ] Yes [X] No
24. Unitization Docket No.:
25. Are you applying for Substandard Acreage Field? [ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION — List all fields of anticipated completion including Wildcat. List one zone per line.

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	40032924	HEARD RANCH (4800)	Gas Well	5200	0.00	1
02	52285166	LAURA THOMSON (4850)	Gas Well	5200	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks

[FILER Feb 13, 2007 10:05 AM]: RMKS ON W1: INFORMATION PROVIDED BY OPERATOR. NOTE: AMENDING TO CHAANGE TOTAL DEPTH AND ADD TWO FIELDS.

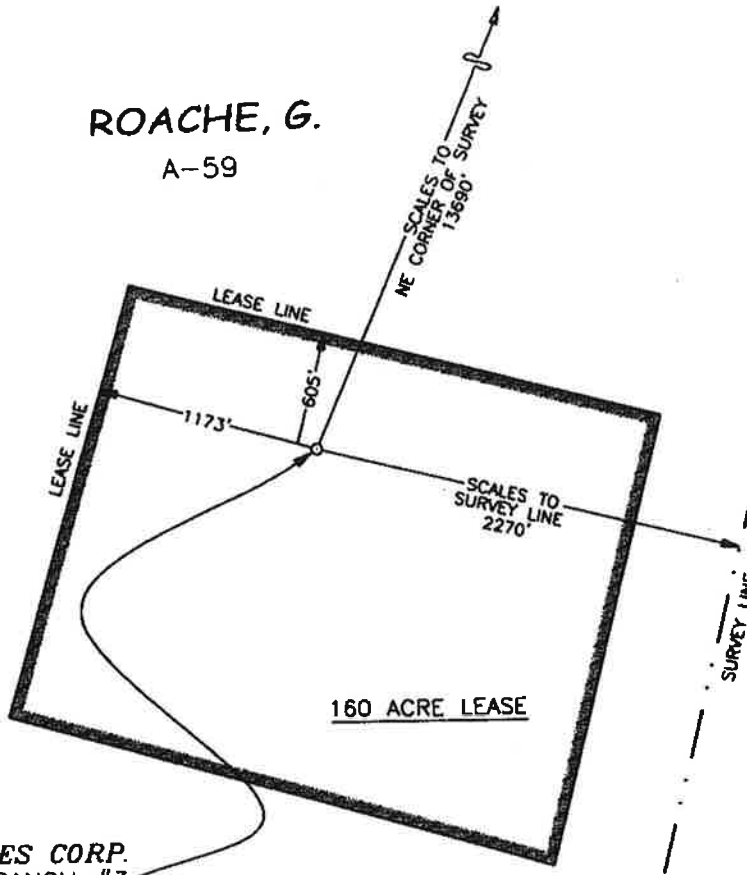
Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

< Walk in Application > — Name of filer
Feb 13, 2007 — Date submitted

Phone
E-mail Address (OPTIONAL)

RRC Use Only Data Validation Time Stamp: Feb 15, 2007 11:39 AM('As Approved' Version)



AURORA RESOURCES CORP.
ARC-BARROW RANCH #3
Y=172,179
X=2,472,490
LAT. = 28°17'55.337" N
LONG. = 97°31'54.559" W
GND. ELEV. = 123.8'

RECEIVED
RRC OF TEXAS
FEB 13 2007
O&G
AUSTIN TX

500 0 500 1000 1500 2000 2500 3000

SCALE: 1" = 1000 FEET

SURVEYOR NOTES:

1. COORDINATES SHOWN ARE BASED ON TEXAS STATE PLANE COORDINATE SYSTEM OF 1927, TEXAS SOUTH CENTRAL ZONE & ARE BASED ON MONUMENT "MOSS" (Y = 176,499.14 X = 2,473,675.17)
2. LATITUDE & LONGITUDE ARE NAD 27 GEOGRAPHIC
3. ALL LEASE & TRACT INFORMATION SHOWN HEREON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY AND THE UNDERSIGNED SURVEYOR DOES NOT WARRANT TO THE ACCURACY THEREOF.

I HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS THE SUBJECT LOCATION AS STAKED ON THE GROUND NOVEMBER 16, 2006.

JARREL L. MOORE
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 4854

STATE OF TEXAS
REGISTERED
JARREL L. MOORE
4854
PROFESSIONAL
LAND SURVEYOR

PLOT DATE: 11-21-06 4:45 PM

PLAT OF:

A WELL LOCATION FOR:

AURORA RESOURCES CORP.

ARC-THOMSON BARROW #3

SITUATED IN THE G. ROACHE SURVEY, A-59, APPROXIMATELY 4.5 MILES EAST SOUTHEAST OF SKIDMORE IN BEE COUNTY, TEXAS

Completion Date: 11/16/06		File Name:	0611047.dwg
Scale: 1" = 1000'		Surveyed by:	WM
Drawn by:	MT	Checked by:	JLM

FRONTIER SURVEYING COMPANY
SERVICES: LAND SURVEYING/LOCATIONS/PIPELINES/MAPPING/GPS/GIS
710 BUFFALO STREET, SUITE 401, CORPUS CHRISTI, TEXAS, 78401
PHONE: (361) 881 - 8044 FAX: (361) 881 - 8340
www.frontiersurveying.com
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API No. 42-025-33445
Drilling Permit # 629995
SWR Exception Case/Docket No.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

FORM W-1 07/2004

Permit Status: Approved

1. RRC Operator No.	2. Operator's Name (as shown on form P-5, Organization Report)	3. Operator Address (include street, city, state, zip):
036931	AURORA RESOURCES CORPORATION	THE 600 BLDG STE 2015 600 LEOPARD ST CORPUS CHRISTI, TX 78473

4. Lease Name	5. Well No.
ARC - THOMSON - BARROW RANCH	3

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [ ] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth	9. Do you have the right to develop the minerals under any right-of-way ?	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)?
3200	[X] Yes [ ] No	[ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.	12. County	13. Surface Location
02	BEE	[X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 4.5 miles in a SE direction from SKIDMORE which is the nearest town in the county of the well site.

15. Section	16. Block	17. Survey	18. Abstract No.	19. Distance to nearest lease line:	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
		ROACHE, G	A-59	605 ft.	160

21. Lease Perpendiculars: 605 ft from the N line and 1173 ft from the W line.

22. Survey Perpendiculars: 2270 ft from the E line and 13690 ft from the N (CREEK) line.

23. Is this a pooled unit?	24. Unitization Docket No.	25. Are you applying for Substandard Acreage Field?
[ ] Yes [X] No		[ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION **List all fields of anticipated completion including Wildcat. List one zone per line.**

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	13551600	BURKES RIDGE (1600)	Gas Well	1600	0.00	1
02	13551850	BURKES RIDGE (2040)	Gas Well	2040	0.00	1
02	13551700	BURKES RIDGE (1850)	Gas Well	1850	0.00	1
02	00004001	WILDCAT	Oil or Gas Well	3200	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks

Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

< Walk in Application > — Name of filer

Dec 05, 2006 — Date submitted

Phone

E-mail Address (OPTIONAL)

RRC Use Only Data Validation Time Stamp: Dec 5, 2006 4:27 PM('As Approved' Version)

Permit Status: Approved

The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

W-1 Supplemental Field Data
07/2004

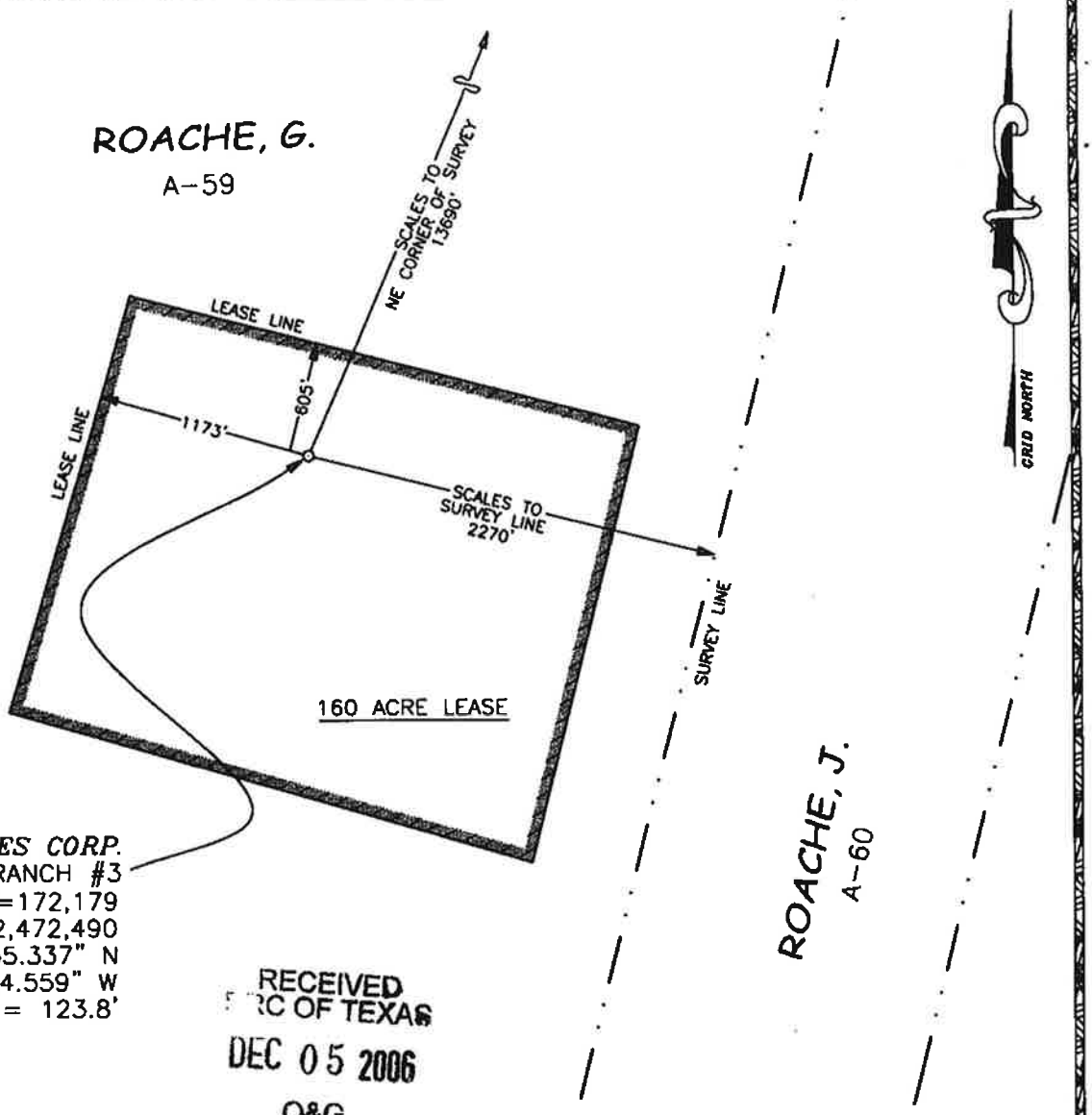
Permit # 629995

Approved Date: Dec 05, 2006

1. RRC Operator No.	2. Operator's Name (exactly as shown on form P-5, Organization Report)	3. Lease Name	4. County
036931	AURORA RESOURCES CORPORATION	ARC - THOMSON - BARROW RANCH	BEE

ADDITIONAL FIELD INFORMATION (continued from Page 1)

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	13551800	BURKES RIDGE (1900)	Gas Well	1900	0.00	1
02	13551925	BURKES RIDGE (2750)	Gas Well	2750	0.00	1



AURORA RESOURCES CORP.
ARC-BARROW RANCH #3
Y=172,179
X=2,472,490
LAT. = 28°17'55.337" N
LONG. = 97°31'54.559" W
GND. ELEV. = 123.8'

RECEIVED
RRC OF TEXAS
DEC 05 2006
O&G
AUSTIN TX

500 0 500 1000 1500 2000 2500 3000

SCALE: 1" = 1000 FEET

SURVEYOR NOTES:

1. COORDINATES SHOWN ARE BASED ON TEXAS STATE PLANE COORDINATE SYSTEM OF 1927, TEXAS SOUTH CENTRAL ZONE & ARE BASED ON MONUMENT "MOSS" (Y = 176,499.14 X = 2,473,675.17)
2. LATITUDE & LONGITUDE ARE NAD 27 GEOGRAPHIC
3. ALL LEASE & TRACT INFORMATION SHOWN HEREON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY AND THE UNDERSIGNED SURVEYOR DOES NOT WARRANT TO THE ACCURACY THEREOF.

I HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS THE SUBJECT LOCATION AS STAKED ON THE GROUND NOVEMBER 16, 2006.

JARREL L. MOORE
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 4854

STATE OF TEXAS · REGISTERED · JARREL L. MOORE · 4854 · PROFESSIONAL LAND SURVEYOR

PLOT DATE: 11-21-06 4:45 PM

PLAT OF:

A WELL LOCATION FOR:

AURORA RESOURCES CORP.

ARC-THOMSON BARROW #3

SITUATED IN THE G. ROACHE SURVEY, A-59, APPROXIMATELY 4.5 MILES EAST SOUTHEAST OF SKIDMORE IN BEE COUNTY, TEXAS

Completion Date: 11/16/06		File Name:	0611047.dwg
Scale: 1" = 1000'		Surveyed by:	WM
Drawn by:	MT	Checked by:	JLM

FRONTIER SURVEYING COMPANY
SERVICES: LAND SURVEYING/LOCATIONS/PIPELINES/MAPPING/GPS/GIS
710 BUFFALO STREET, SUITE 401, CORPUS CHRISTI, TEXAS, 78401
PHONE: (361) 881 - 8044 FAX: (361) 881 - 8340
www.frontiersurveying.com
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MAP ID #40

API# 42-025-01539
DRY HOLE

(40)

Please refer to File No. 128214

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1

APPLICATION TO DRILL, DEEPEN OR PLUG BACK

IS THIS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK.....Drill.....?

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line.....3250.....feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease. 2700..feet.

Date.....April 10.....19.57...

Name of company or operator

Name...Humble Oil & Refining Company.....

Address...P. O. Box 1271.....

City.....Corpus Christi, Texas.....

Description of farm or lease:

Name of Lease...Laura D. Thomson "B"...

Number of Acres 10,500.....Well No....4.....

Number of wells on lease.....2.....

Survey..Garrett Roache (A-59)

Elevation.....Feet
(ABOVE SEA LEVEL)

Section No.....Block No.....

Located in.....Medio Creek.....Field

(If Wildcat state above)

.....Bee.....County

.....8.7.....Miles..NE.....direction from

Skidmore, Texas.....nearest postoffice or town.

Rotary or Cable Tools.....Rotary.....

Date work will start drilling.As soon as permitted

Depth to ~~which you propose to drill~~ 5700...feet.

Date work will start deepening.....

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name.....

Address.....

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Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

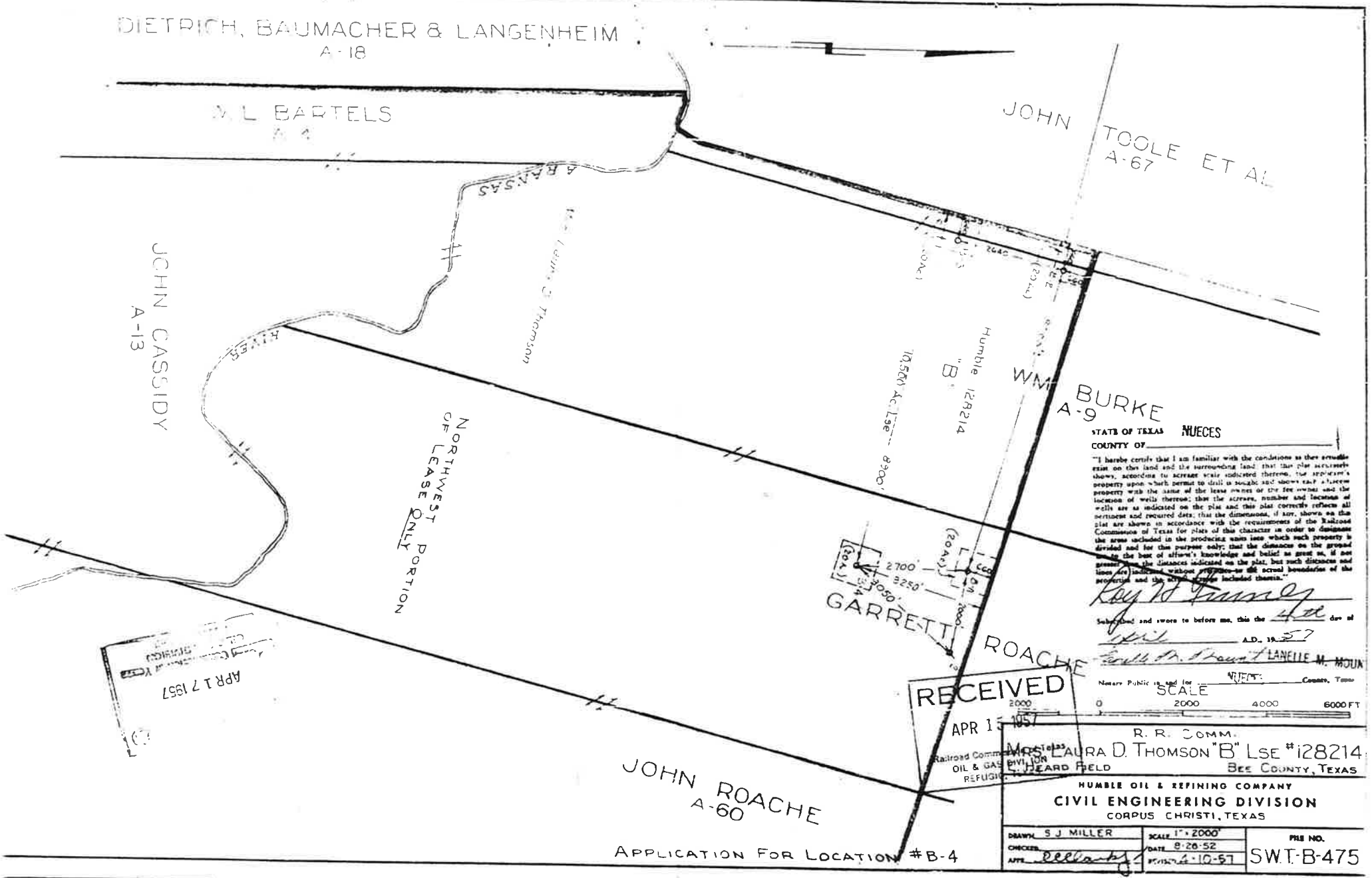
LOCATION: 2700' south of Laura D. Thomson "B" No. 1 and 3050' southwest of Laura D. Thomson "B" No. 2 (dry and abandoned); also being approximately 3250' south of the northerly north line and 8900' east of the northerly west line of the lease.

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

APR 25 1957

025-01539


DIETRICH, BAUMACHER & LANGENHEIM
A-18
W. L. BARTELS
A-4
JOHN TOOLE ET AL
A-67
JOHN CASSIDY
A-13
ARANSAS
RIVER
Mrs. Laura D. Thomson
NORTHWEST PORTION OF LEASE ONLY
Humble 128214 "B"
10,500 Ac. Lse. 8900'
WM. BURKE
A-9
GARRETT ROACHE
JOHN ROACHE
A-60
APPLICATION FOR LOCATION #B-4
STATE OF TEXAS NUECES
COUNTY OF
"I hereby certify that I am familiar with the conditions as they actually exist on this land and the surrounding land; that this plat accurately shows, according to acreage scale indicated thereon, the applicant's property upon which permit to drill is sought and shows each adjacent property with the name of the lease owner or the fee owner and the location of wells thereon; that the acreage, number and location of wells are as indicated on the plat and this plat correctly reflects all pertinent and required data; that the dimensions, if any, shown on this plat are shown in accordance with the requirements of the Railroad Commission of Texas for plats of this character in order to designate the areas included in the producing units into which such property is divided and for this purpose only; that the distances on the ground are to the best of affiant's knowledge and belief as great as, if not greater than the distances indicated on the plat, but such distances and lines are indicated without prejudice to the actual boundaries of the properties and the actual acreage included therein."
Subscribed and sworn to before me, this the 4th day of April A.D., 1957
LANELLE M. MOUN
Notary Public in and for NUECES County, Texas
SCALE
0 2000 4000 6000 FT
RECEIVED
APR 15 1957
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO
APR 17 1957
R. R. COMM.
MRS. LAURA D. THOMSON "B" LSE #128214
E. HEARD FIELD
BEE COUNTY, TEXAS
HUMBLE OIL & REFINING COMPANY
CIVIL ENGINEERING DIVISION
CORPUS CHRISTI, TEXAS
DRAWN S J MILLER
CHECKED
APPR.
SCALE 1" = 2000'
DATE 8-28-52
REVISED 4-10-57
FILE NO.
SWT-B-475

Please Refer to File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application
To Plug and
Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company Humble Oil & Refining Co. Address Box 1271, Corpus Christi, Texas

Sec. No. - Block No. - Survey Garrett Roache County Bee

Well No. 4 Name of Lease Laura D. Thomson "B" No. of Acres 10,500 Elev. 144 GR

Name of Field in which well is located Medio Creek

Located 8.7 Miles NE Direction from Skidmore, Texas (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Humble Oil & Refining Co.

Drilling Commenced 4-30-57, 19 57. Drilling Completed 5-10, 19 57

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 5204

Date you wish to Plug 5-10, 19 57.

Name of Party Plugging Well Humble Oil & Refining Co. Address Box 1271, Corpus Christi, Texas

Correspondence regarding this well should be sent to: Name Mr. R. O. Frame

Address same as above

Initial Production of Gas: Volume (MCF) - 24 hrs. Pressure - lbs. per square inch

Initial Production of Oil: Barrels -

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks:

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JUN 27 1957
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

RECEIVED
JUN 25 1957
Railroad Commission of Texas
OIL & GAS DIVISION

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Surface snd & sh	0	464	
Snd & sh	464	1176	
Sh W/sd strks	1176	1361	
Sh & sd	1361	3325	
Sh & sd W/S hd snd	3325	3505	
Sh W/strks sd	3505	4000	
Sh	4000	4465	
Sh W/S hd sndy sh	4465	4805	
Sh & sd	4805	5021	
Hd Sh W/S hd sndy Sh & snd	5021	5134	
Sh W/S snd	5134	5204	

RECEIVED

Method of shutting off water Casing & Cement Is water completely shut off? Yes

Amount of water with oil - per cent -

I, J. A. Kemp being first duly sworn on oath state that I have knowledge of the facts and matter hereinabove set forth and that the same are true and correct.

J. A. Kemp
Representative of Company.

Subscribed and sworn to before me this 21st day of June, 19 57

E. M. Bedford
Notary Public

Refugio County, Texas.

Please Refer to
File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Humble Oil & Refining Co. Address Box 1271, Corpus Christi, Texas

Sec. No. - Block No. - Survey Garrett Roache County Bee

Well No. 4 Name of Lease Laura D. Thomson "B" No. of Acres 10,500

Name of Field in which well is located Medio Creek Date well was plugged 5-10- , 1957

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of Humble Oil & Refining Co.

Character of Well at the time of completion: Oil - (Initial Production) bbls; Gas - (Initial Production) Cu. Ft.; Dry Dry

Amount well producing when plugged: Oil - bbls; Gas - Cu. Ft.; Water - bbls.

Has this well ever produced oil or gas? No

Total Depth 5204 feet. Top of each producing sand - feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? yes

How was mud applied? Pumped thru casing

Were plugs used? yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? Yes. Set Hall D.C.Packer @ 1300' squeezed 75 sx. common cement-dropped sealing bar, left 25 sx on top. tested @ 2000 #.

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
8 5/8"	1289		0	0	1289		Hall. Guide Shoe & Float Collar
9 5/8"	46		0	0	46		

Show depth found and thickness of all water, oil and gas formations -

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: Cement Plugs

The names of adjacent lease, royalty and landowners with their addresses in each instance, as follows:
F. W. Shield, 1442 Milam Bldg., San Antonio, Texas
Burch Spears, Box 41, Victoria, Texas
Hewitt & Doughtery, Box 227, Corpus Christi, Texas
Pan American, Box 1980, Corpus Christi, Texas
Selby-Walker Corp., Box 1218, Corpus Christi, Texas

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Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

Was notice given before plugging to all available adjacent lease owners as required by Rule 37? Yes

I, J. A. Kemp, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name J. A. Kemp, Title District Supt.

Subscribed and sworn to before me this 21st day of June, 1957

E. M. Bedford
Notary Public Refugio County, Texas

Correspondence regarding this well should be addressed to:

Name Mr. R. O. Frame Address Box 1271, Corpus Christi, Texas

MAP ID #41

API# 42-025-32498
DRY HOLE

0 0 0 0 5 3 1 5

(41)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42-025-32498 (If available)

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 02
4. RRC Lease or Id. Number: NONE
5. Well Number: 23
10. County: Bee
11. Date Drilling Permit Issued: 10/24/88
12. Permit Number: 352542
13. Date Drilling Commenced: 12/12/88
14. Date Drilling Completed: 12/15/88
15. Date Well Plugged: 12/15/88

2. FIELD NAME (as per RRC Records): ~~Burkes Ridge~~ WILDCAT
3. Lease Name: Laura D. Thomson "B"
6. OPERATOR: Mueller Engineering Corp.
6a. Original Form W-1 Filed in Name of: Mueller Engineering Corp.
7. ADDRESS: 1010 First City Tower II, Corpus Christi, Texas 78478
6b. Any Subsequent W-1's Filed in Name of: N/A
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 2900 Feet From SE Line and 13,000 Feet From SW Line of the Laura D. Thomson Lease
9a. SECTION, BLOCK, AND SURVEY: Garrett Roache Survey, A-59
9b. Distance and Direction From Nearest Town in this County: 9 miles NE from Papalote
16. Type Well (Oil, Gas, Dry): Dry
Total Depth: 2860'
17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	OIL-O Gas-O	WELL #

18. If Gas, Amt. of Cond. on Hand at time of Plugging

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	12-15-88	12-15-88	12-15-88					
20. Size of Hole or Pipe in which Plug Placed (inches)	7 7/8	8 5/8	8 5/8					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1200	350	13					
*22. Sacks of Cement Used (each plug)	50	50	20					
*23. Slurry Volume Pumped (cu. ft.)	59	59	11.8					
*24. Calculated Top of Plug (ft.)	1025	176	3					
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	15.8	15.8	15.8					
*27. Type Cement	H	H	H					

RECORD CODIFICATION
APR 14 1989

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8-5/8"	24#/ft.	300'	300'	12-1/4"

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: [ ] Yes [X] No
29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM N/A	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

WATER DISTRICT LETTER DATED 9-29-88
0-1150 ft.
11-1-88
300 ft.

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Dowell Serv. Inc.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Jean Bogard — Jean Bogard — Agent — 01/05/89 — Phone (512) 883-1911
REPRESENTATIVE OF COMPANY — TITLE — DATE — A/C NUMBER

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R.R.C. OF TEXAS
JAN 25 1989
O.G.

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

[redacted]

025-32498

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — [X] Yes [ ] No

32. How was Mud Applied? Pump

33. Mud Weight 9.6 LBS/GAL

34. Total Depth 2860'

Other Fresh Water Zones by T.D.W.R. — TOP / BOTTOM

Depth of Deepest Fresh Water 1150'

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well (713) 421-4992
Roy Well Services, Inc., 5229 D'Amico, Houston, Texas 77019

Date RRC District Office notified of plugging 12/15/88 at 10:15 a.m.

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Surface Owner - Thomas D. Barrow, 1010 Lamar, Suite 400, Houston, Texas 77002-6317
Mosbacher Prod. Co., 712 Main Street, Suite #2200, % W. Glasgow Houston, Texas 77002-3290, 77255
Flourooy Prod. Co., P. O. Box 1578, Alice, Texas 78333; IMC Expl. Co., P. O. Box 55583, Houston,
Guy L. Warren, Box 2507, Corpus Christi, Texas 78403; J.F. Hillier, 509 Bensdale, Pleasanton 78064
Exxon Corp., Box 2445, Houston, Texas 77252; L.H. Haring, D-310 Petro.Ctr., San Antonio, TX 78209
Union Prod. Corp., P. O. Box 2227.5, Houston, Texas 77227

39. Was Notice Given Before Plugging to Each of the Above? Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

Form L-1 (Request for Confidentiality) filed on 01/05/89.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [X] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls

File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

0 0 0 0 5 3 1 5 4 4

Cementer: Fill in shaded areas.
Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
403-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
Mueller Engineering Corp.	592645	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No.**	**7 Drilling Permit No**
~~Burkes Ridge~~ WILDCAT		42-025-32498	352542
8 Lease Name	**9 Rule 37 Case No.**	**10 Oil Lease/Gas ID No**	**11 Well No**
Laura D. Thomson "B"		NONE	23

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		12-12-88					
13 *Drilled hole size		12-1/4"					
*Est. % wash or hole enlargement		N/A					
14. Size of casing (in. O.D.)		8-5/8"					
15 Top of liner (ft.)		N/A					
16 Setting depth (ft.)		500'					
17 Number of centralizers used							
18 Hrs. waiting on cement before drill out		6					
1st Slurry	19. API cement used: No. of sacks ▶	160					
	Class ▶	Standard					
	Additives ▶	2% CC					
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped Volume (cu. ft.) ▶	188.8					
	Height (ft.) ▶	457.4					
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	188.8					
	Height (ft.) ▶	457.4					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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JAN 25 1989

O.G. SAN ANTONIO, TX

22 Remarks

[redacted]

OVER ▶

Cementer: Fill in shaded areas
Operator: Fill in other items

000053 5543

Form W-15
Cementing Report
Rev. 4/1/83
482-005

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Mueller Engineering Corp.	592645	02	Bee
5. Field Name (Wildcat or exactly as shown on RRC records)		**6. API No.**	**7. Drilling Permit No.**
~~Burkina Ridge~~ WILDCAT		42-025-32498	352542
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
Laura D. Thomson "B"		NONE	23

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
✓	12. Cementing Date						
	13. *Drilled hole size						
	*Est. % wash or hole enlargement						
	14. Size of casing (in. O.D.)						
	15. Top of liner (ft.)						
	16. Setting depth (ft.)						
	17. Number of centralizers used						
	18. Hrs. waiting on cement before drill-out						
1st Slurry	19. API cement used No. of sacks ▶						
	Class ▶						
	Additives ▶						
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped Volume (cu. ft.) ▶						
	Height (ft.) ▶						
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
	21. Was cement circulated to ground surface (or bottom of cellar) outside casing?						

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R.R.C. OF TEXAS

JAN 25 1989

O.G.
SAN ANTONIO, TX

22. Remarks

[redacted]

OVER ▶

Mueller Eng Corp.

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date	12-15-88	12-15-88						
24. Size of hole or pipe plugged (in.)	7 7/8	8 5/8				[redacted]		
25. Depth to bottom of tubing or drill pipe (ft.)	1200	350						
26. Sacks of cement used (each plug)	50	50						
27. Slurry volume pumped (cu. ft.)	59	59						
28. Calculated top of plug (ft.)	1025	176						
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)	15.8	15.8						
31. Type cement	H	H						

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

John Atkins - Cementer — Name and title of cementer's representative
Roywell Serv. Inc. — Cementing Company
[signature] — Signature

3229 O'Amico — Address
Houston TX 77019 — City, State, Zip Code
(713) 421-4992 — Tel.: Area Code Number
12 15 88 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Jean Bogard — Typed or printed name of operator's representative
Agent — Title
[signature] — Signature

1010 First City Tower II, Corpus Christi, Texas 78478 — Address, City, State, Zip Code
(512) 883-1911 — Tel.: Area Code Number
01/05/89 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

)00053 1540

▶ Return each W-1 with plat and $100.00 fee.
Make a check or money order payable to the State Treasurer of Texas. Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Drawer 12967, Capitol Station
Austin, Texas 78711
▶ File a copy of W-1 and plat in RRC District Office.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ Read Instructions on Back

Form W-1
Rev. 9/1/83
483-080

Purpose of filing (mark appropriate boxes):
☒ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter
☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here if assigned: API No. ▶ 42-025-32493
Permit No. ▶ 352542

1 Operator's Name (exactly as shown on Form P-5, Organization Report): Mueller Engineering Corp. OK 10/21/88
3 RRC Operator No: 592645
4 RRC District No: 02
5 County of Well Site: Bee
Rule 37 Case No. ▶

2 Address (including city and zip code):
1010 First City Tower II
Corpus Christi, Texas 78478
598845

6 Lease Name (32 spaces maximum): Laura D. Thomson "B"
7 RRC Lease ID No: N/A
8 Well No: 25
9 Total Depth: 2850'

10 Location
• Section _____ Block _____ Survey Garrett Roache Abstract No A-59
• This well is to be located 9 miles in a NE. direction from Papalote
which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 2950 ft.
12 Number of contiguous acres in lease, pooled unit, or unitized tract: 220.5 (OUTLINE ON PLAT.)

Granted 10/24/88

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Burkes Ridge (Greta) 1355 120	2750'	467/1200	40	40	No	5400'	Gas	0	2
Burkes Ridge (1600) 1355 600	1605'	467/1200	40	40	No	2350'	Gas	0	2
Burkes Ridge (1850) 1355 700	1850'	467/1200	40	40	No	N/A	Gas	0	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 2950' FSWL, 4400' FSEL
• Survey/Section 13000' FSWL (Aransas River), 3200' FSEL

If a directional well, show also projected bottom-hole location
• Lease/Unit _____
• Survey/Section _____

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes ☒ No ☐
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: Jean Bogard Name and title of operator's representative: Jean Bogard, Agent

Date: 10/19/88 (mo day yr) Tel. Area Code Number: (512) 883-1911

202865 OIL 2188 • RRC Use Only •

352542

025-32493

100053 1541

▶ Return each W-1 with plat and $100.00 fee. Make a check or money order payable to the State Treasurer of Texas. Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Drawer 12967, Capitol Station
Austin, Texas 78711
▶ File a copy of W-1 and plat in RRC District Office.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

▶ Read Instructions on Back

Form W-1
Rev. 9/1/83
483-080

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

Purpose of filing (mark appropriate boxes):
☒ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter
☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, If assigned: API No. ▶ 42-025-32488
Permit No. ▶
Rule 37 Case No. ▶

1 Operator's Name (exactly as shown on Form P-5, Organization Report)	3 RRC Operator No.	4 RRC District No.	5 County of Well Site
Mueller Engineering Corp.		02	Bee

2 Address (including city and zip code)	6 Lease Name (32 spaces maximum)	7 RRC Lease ID No.	8 Well No.	9 Total Depth
1010 First City Tower II Corpus Christi, Texas 78478	Laura D. Thomson "B"	N/A	23	2850'

10 Location
• Section _____ Block _____ Survey Garrett Roache Abstract No. A- 59
• This well is to be located 9 miles in a NE direction from Papalote
which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 2950 ft.

12. Number of contiguous acres in lease, pooled unit, or unitized tract 2205 (OUTLINE ON PLAT)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. (OUTLINE ON PLAT.)	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Burkes Ridge (2040) 13551 950	2030	467/1200	40	40	No	N/A	Gas	0	1
Wildcat 4001	Above 2850	467/1200	40	40	No	N/A	Gas/Oil	1	1

22 Perpendicular surface location from two nearest designated lines
• Lease/Unit 2950' FSWL, 4400' FSEL
• Survey/Section 13000 FSWL (Aransas River), 5200' FSEL

If a directional well, show also projected bottom-hole location
• Lease Unit _____
• Survey/Section _____

23 Is this a pooled unit?
Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24 Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
Yes ☐ ▶ (Attach Form W-1A) No ☒

25 Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒
If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks

26 Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.
Yes ☐ No ☒

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

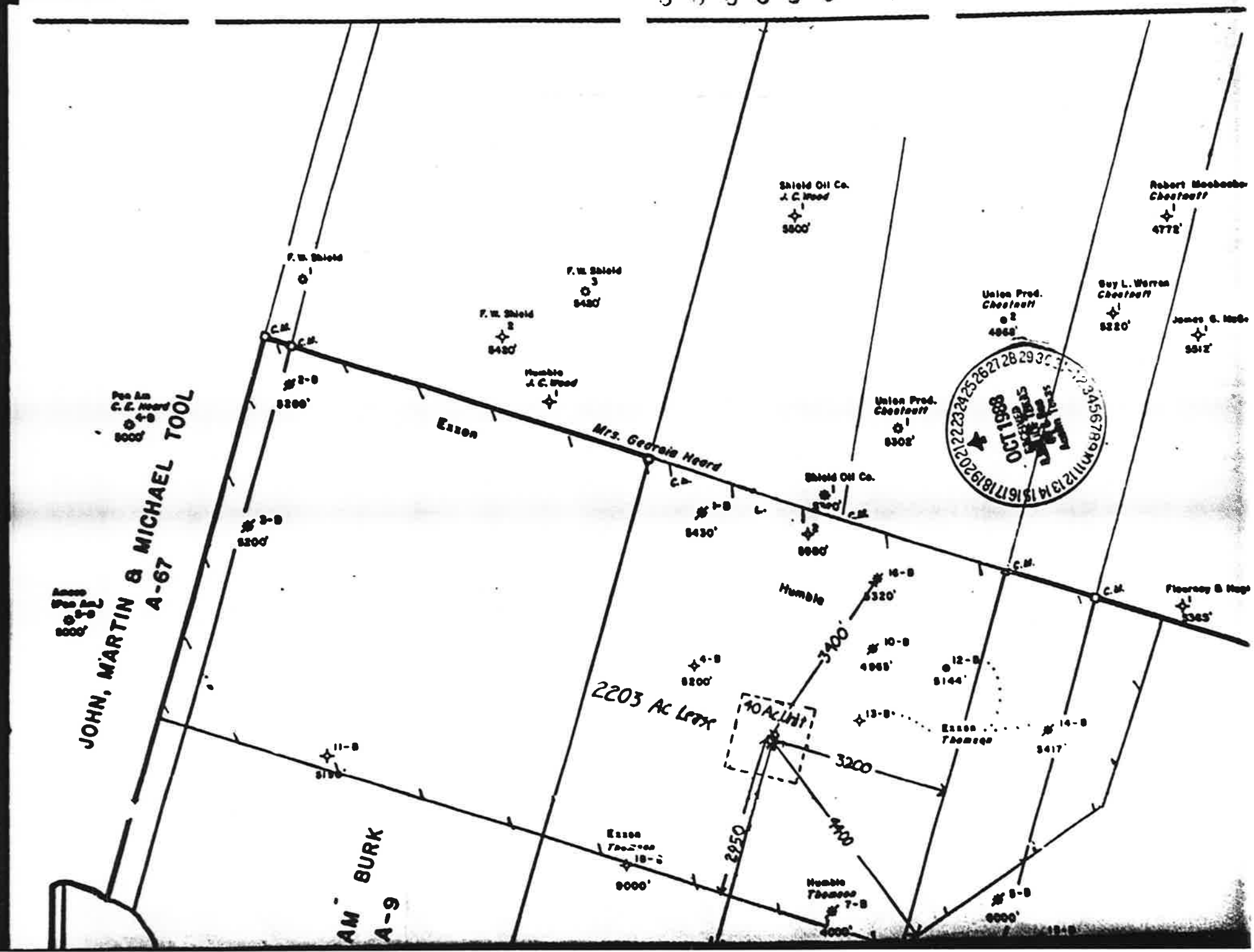
Jean Bogard Jean Bogard, Agent
Signature Name and title of operator's representative

10/19/88 (512) 883-1911
Date: mo day yr. Tel: Area Code Number

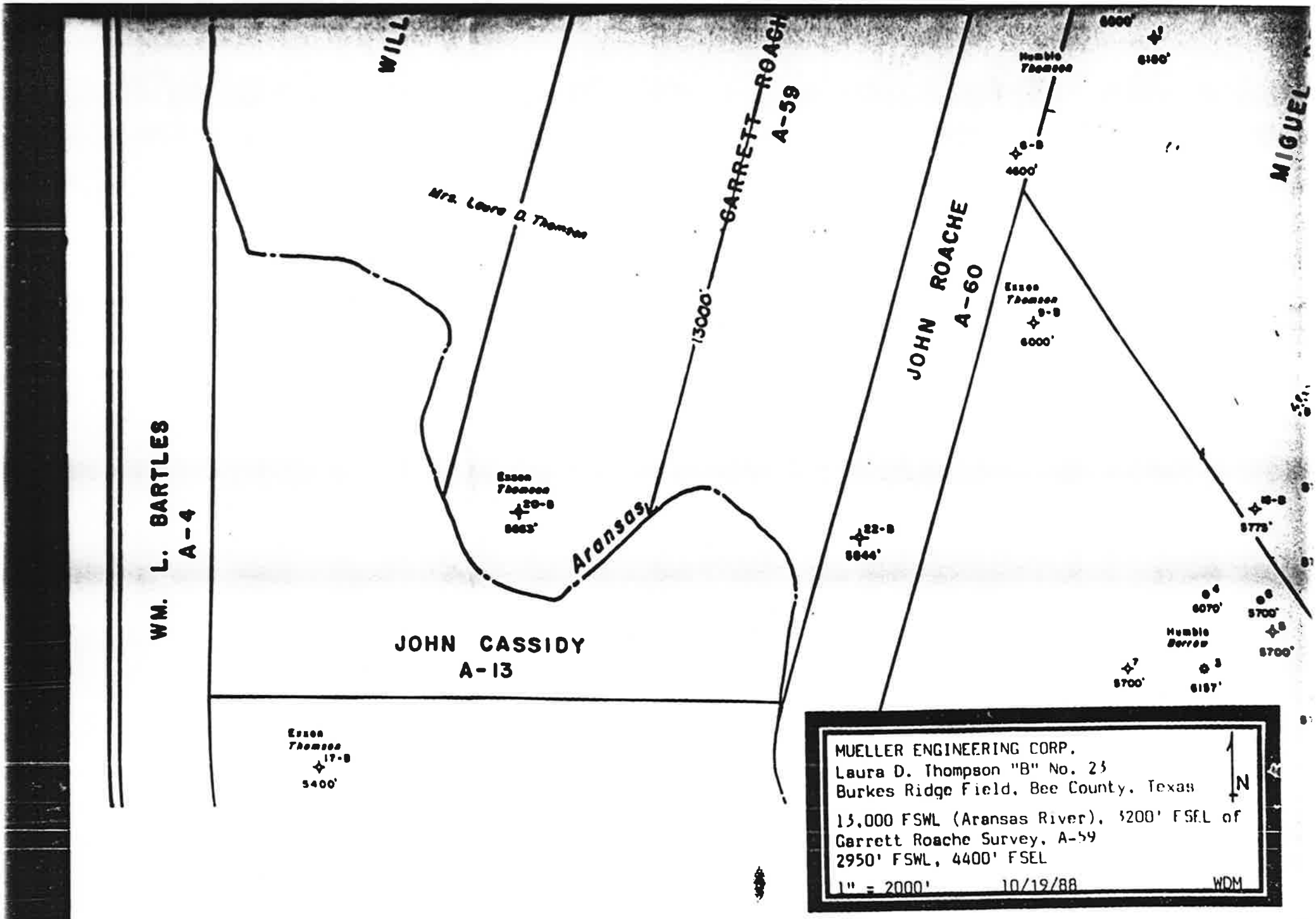
Page 2 of 2

202865 OCT 2188 • RRC Use Only •

025-32488



JOHN, MARTIN & MICHAEL TOOL
A-67
AM BURK
A-9
Mrs. Georgia Heard
Exxon
Humble
2203 Ac Lease
40 Ac Unit
3400
3200
4400
2950
F. W. Shield
Shield Oil Co.
J. C. Wood
Union Prod.
Chestnutt
Guy L. Warren
Chestnutt
Pan Am
C. E. Heard
Exxon
Thomson
Humble
Thomson
OCT 1988


WILL
GARRETT ROACH
A-59
Mrs. Laura D. Thomson
13000'
JOHN ROACHE
A-60
MIGUEL
WM. L. BARTLES
A-4
Aransas
JOHN CASSIDY
A-13
Humble Thomson
6-B
4600'
Exxon Thomson
9-B
6000'
Exxon Thomson
20-B
5663'
22-B
5844'
18-B
5775'
6070'
5700'
Humble Barrow
5700'
5700'
6157'
Exxon Thomson
17-B
5400'
N
MUELLER ENGINEERING CORP.
Laura D. Thompson "B" No. 23
Burkes Ridge Field, Bee County, Texas
13,000 FSWL (Aransas River), 3200' FSEL of
Garrett Roache Survey, A-59
2950' FSWL, 4400' FSEL
1" = 2000'
10/19/88
WDM

MAP ID #42

API# 42-025-33316
DRY HOLE

(42)

P

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

	API NO. 42-025-33316 (if available)	1. RRC District 02
FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING		4. RRC Lease or Id. Number
2. FIELD NAME (as per RRC Records) Wildcat	3. Lease Name Barrow	5. Well Number 1
6. OPERATOR Erskine Energy, LLC	6a. Original Form W-1 Filed in Name of: Erskine Energy, LLC	10. County Bee
7. ADDRESS 11900 Old Katy Rd., Suite 1200 Houston, TX. 77042	6b. Any Subsequent W-1's Filed in Name of: 1931 FWL & 2389 FNL per plat/permit	11. Date Drilling Permit Issued 01-31-05
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located	2421 Feet From E Line and 14900 Feet From S Line of the Lease	12. Permit Number 557020
9a. SECTION, BLOCK, AND SURVEY Garret Roache A-59	9b. Distance and Direction from Nearest Town in this County 9 miles northwest of Papalote	13. Date Drilling Commenced 02-10-05
16. Type Well (Oil, Gas, Dry) — Total Depth 13800'	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s — GAS ID or OIL LEASE # / Oil-O GAS-G / WELL #	14. Date Drilling Completed 06-02-05
18. If Gas, Amt. of Cond. on Hand at Time of Plugging		15. Date Well Plugged

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date 2006	12/06/06	12/09/06	12/09/06	12/10/06	12/10/06			
20. Size of Hole or Pipe in which Plug Placed (inches)	13 3/8"	13 3/8"	13 3/8"	13 3/8"	20"			
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4800'	2055'	1150'	800'	13'			
*22. Sacks of Cement Used (each plug)	158	282	180	180	20			
*23. Slurry Volume Pumped (cu.ft.)	186.44	332.76	212.40	212.40	23.60			
*24. Calculated Top of Plug (ft.)		1885'		700'	3'			
25. Measured Top of Plug (if tagged) (ft.)	4600'		1040'					
*26. Slurry Wt. #/Gal.	16.4	16.4	16.4	16.4	16.4			
*27. Type Cement	H	H	H	H	H			

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.#/FT.	PUT IN WELL(ft.)	LEFT IN WELL	HOLE SIZE(in
20	133#	2,005	2001'	
13 3/8	68#	5453	5449'	
9 5/8	53.5#	4502'	4502'	
LNR 7 5/8"	39#	2577'	2577'	
LNR 5 1/2"	20#	1164'	1164'	

29. Was any Non-Drillable Material (Other than Casing) Left in This Well | | Yes | [x] No

29a. If answer to above is "yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

RECEIVED
RRC OF TEXAS
JAN 29 2007
OIL & GAS DIVISION
SAN ANTONIO, TX

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4756 - 4785	TO	FROM		TO
FROM	4836 - 4844	TO	FROM		TO
FROM	5428 - 5438	TO	FROM		TO
FROM		TO	FROM		TO
FROM		TO	FROM		TO

I have knowledge that cementing operations, as reflected by information found on this form, were performed as indicated by such information.
*Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Delta Seaboard Well Service, Inc.
Name of Cementing Company

CERTIFICATE: Mitchell Derrick, Texas Operations Manager

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Scott Stills Prod. Engr.
REPRESENTATIVE OF COMPANY — TITLE

1/22/07
DATE

Phone 713-400-9265
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

AMOUNT 192

025-33316

Received
FEB 20 2007
Erskine Energy

052-23316

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev.4/1/83
HAL1199

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ERSkine Energy, LLC	254058	02	Bee
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	**6. API No.**	**7. Drilling Permit No.**	
Wildcat	42-025-33316	557020	
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
Barrow			1

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		2/14/2005					
13. *Drilled hole size		26"					
*Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		20"					
15. Top of liner (ft)		-					
16. Setting depth (ft)		2005'					
17. Number of centralizers used		14					
18. Hrs. waiting on cement before drill-out		38.5					
1st slurry	19. API cement used: No. of sacks >	2000					
	Class >	STANDARD					
	Additives >	SEE REMARKS					
2nd slurry	No. of sacks >	850					
	Class >	STANDARD					
	Additives >	NEAT					
3rd slurry	No. of sacks >						
	Class >						
	Additives >						
1st	20. Slurry pumped: Volume (cu.ft.) >	4200					
	Height (ft.) >	2790.06					
2nd	Volume (cu.ft.) >	1062.5					
	Height (ft.) >	706					
3rd	Volume (cu.ft.) >						
	Height (ft.) >						
Total	Volume (cu.ft.) >	5262.5					
	Height (ft.) >	3496.06					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		YESS					

22. Remarks

LEAD CEMENT: **3%SALT+.25%D-AIR 3000+.3%HR-7**

ERSKINE ENERGY LLC
BARROW #1
BE ,COUNTY
Well Owner: ERSKINE ENERGY LLC
Sales Order: 3535495

680 bbls cement returns

OVER

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu.ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

ADRIAN FUNARI	Service Supervisor	HALLIBURTON ENERGY SERVICES	X
Name and Title of Cementer's Representative		Cementing Company	Signature

101 HOLT ROAD	VICTORIA	TX	77905	361-575-1443		2/14/2005		
Address	City,	State	Zip Code	Tel: Area Code	Number	Date: Mo.	Day	Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Leah Moon Beeton	Regulatory Tech	Leah Moon Beeton/gm	
Typed or Printed Name of Operator's Representative	Title	Signature	

11700 Old Katy Rd #200	Houston	TX	77079	(713)400-9276		02-23-07		
Address	City,	State	Zip Code	Tel: Area Code	Number	Date: Mo.	Day	Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev.4/1/83
HAL1199

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ERSkine Energy, LLC	254058	02	Bee
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	**6. API No.**		**7. Drilling Permit No.**
Wildcat	42-025-33316		557020
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
Barrow			1

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		2/28/2005					
13. *Drilled hole size		17 1/2"					
*Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		13 3/8"					
15. Top of liner (ft)		-					
16. Setting depth (ft)		5453'					
17. Number of centralizers used							
18. Hrs. waiting on cement before drill-out		50					
1st slurry	19. API cement used: No. of sacks >	2195					
	Class >	MODHLC(H)					
	Additives >	SEE REMARKS					
2nd slurry	No. of sacks >	995					
	Class >	PREMIUM(H)					
	Additives >	SEE REMARKS					
3rd slurry	No. of sacks >						
	Class >						
	Additives >						
1st	20. Slurry pumped: Volume (cu.ft.) >	4258					
	Height (ft.) >	6130					
2nd	Volume (cu.ft.) >	1084.5					
	Height (ft.) >	1561					
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >	5342.5					
	Height (ft.) >	7691					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		NO					

22. Remarks

LEAD CEMENT

ERSKINE ENERGY — **3% SALT+ .25% D-AIR3000P+ .1%HR-7**

BARROW #1 — ***TAIL CEMENT:***

BEE — **.15%HR-5**

Well Owner: **ERSKINE ENERGY**

Sales Order: **3554653**

OVER →

CEMENTING TO PLUG AND ABANDON	PL	PLUG #2	PLUG #3	PLUG #4	PLU	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu.ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Danny Horton	Service Supervisor	HALLIBURTON ENERGY SERVICES	X Danny Horton
Name and Title of Cementer's Representative		Cementing Company	Signature

101 HOLT ROAD	VICTORIA	TX	77905	361-575-1443	2/28/2005
Address	City,	State,	Zip Code	Tel: Area Code Number	Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Leah Moon Becton	Regulatory Tech	Leah Moon Becton/gpm
Typed or Printed Name of Operator's Representative	Title	Signature

11700 Old Katy Rd #200	Houston,	TX	77079	(713)400-9276	02-23-07
Address	City,	State	Zip Code	Tel: Area Code Number	Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

* An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules:
* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev.4/1/83
HAL1199

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ERSkine Energy, LLC	254058	02	Bee
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	**6. API No.**		**7. Drilling Permit No.**
Wildcat	42-025-33316		557020
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
Barrow			1

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date			3/25/2005				
13. *Drilled hole size			12 1/4"				
*Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)			9 5/8"				
15. Top of liner (ft)							
16. Setting depth (ft)			1042'				
17. Number of centralizers used							
18. Hrs. waiting on cement before drill-out			24 hr				
1st slurry	19. API cement used: No. of sacks >		700				
	Class >		PREMIUM				
	Additives >		see remarks				
2nd slurry	No. of sacks >						
	Class >						
	Additives >						
3rd slurry	No. of sacks >						
	Class >						
	Additives >						
1st	20. Slurry pumped: Volume (cu.ft.) >		973				
	Height (ft.) >		3107				
2nd	Volume (cu.ft.) >						
	Height (ft.) >						
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >		973				
	Height (ft.) >		3107				
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?			NO				

22. Remarks

LEAD CEMENT **35% SSA-2 + 13 PPS HI-DENSE + .6%HALAD-23 + .25% CFR-3 + .1%HR-5**

ERSKINE ENERGY
BARROW #1
BEE

Well Owner: **ERSKINE ENERGY**
Sales Order: **3581429**

OVER ➔

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu.ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

MARK ONDRIAS	Service Supervisor	HALLIBURTON ENERGY SERVICES	X Mark Ondrias
Name and Title of Cementer's Representative		Cementing Company	Signature

101 HOLT ROAD	VICTORIA	TX	77905	361-575-1443	3/25/2005
Address	City,	State,	Zip Code	Tel: Area Code Number	Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Leah Moon Benton	Regulatory Tech	Leah Moon Benton/gcm	
Typed or Printed Name of Operator's Representative	Title	Signature	

11700 Old Katy Rd #200	Houston,	TX	77079	(713) 400-9276	02-23-07
Address	City,	State	Zip Code	Tel: Area Code Number	Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

* An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules:
* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Received
APR 05 2005
ExxonMobil Energy

Cementer: Fill in shaded areas
Operator: Fill in other items

Rece... APR 13 ... Erskine En...

Form W-15
Cementing Report
Rev.4/1/83
HAL1199

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ERSkine Energy, LLC	254058	02	Bee
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	**6. API No.**		**7. Drilling Permit No.**
Wildcat	42-025-33316		557020
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
Barrow			1

CASING CEMENTING DATA:	DRILLING LINER	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date	4/6/2005					
13. *Drilled hole size	8 1/2"					
*Est. % wash or hole enlargement						
14. Size of casing (in. O.D.)	7 5/8"					
15. Top of liner (ft)						
16. Setting depth (ft)	12500'					
17. Number of centralizers used						
18. Hrs. waiting on cement before drill-out						
1st slurry — 19. API cement used: No. of sacks >	230					
1st slurry — Class >	H					
1st slurry — Additives >	SEE REMARKS					
2nd slurry — No. of sacks >						
2nd slurry — Class >						
2nd slurry — Additives >						
3rd slurry — No. of sacks >						
3rd slurry — Class >						
3rd slurry — Additives >						
1st — 20. Slurry pumped: Volume (cu.ft.) >	356.5					
1st — Height (ft.) >	2873					
2nd — Volume (cu.ft.) >						
2nd — Height (ft.) >						
3rd — Volume (cu.ft.) >						
3rd — Height (ft) >						
Total — Volume (cu.ft.) >	356.5					
Total — Height (ft.) >	2873					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?	NO					

22. Remarks

LEAD CEMENT: **35%SSA-2+48PPS HI-DENSE+0.4%HALAD-344+0.6%HALAD-413+0.3%CFR-3**

ERSKINE ENERGY LLC
BARROW #1
BEE

Well Owner: **ERSKINE ENERGY LLC**
Sales Order: **3633094**

OVER

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu.ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

ADRIAN FUNARI	Service Supervisor	HALLIBURTON ENERGY SERVICES	X Adrian Funari
Name and Title of Cementer's Representative		Cementing Company	Signature

101 HOLT ROAD	VICTORIA	TX	77905	361-575-1443	4/6/2005
Address	City,	State,	Zip Code	Tel: Area Code Number	Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Leah Moon Beaton	Regulatory Tech	Leah Moon Beaton/gm
Typed or Printed Name of Operator's Representative	Title	Signature

11700 Old Katy Rd #200	Houston, TX	77079	(713)400-9276	02-23-07
Address	City, State	Zip Code	Tel: Area Code Number	Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- * An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules:
- * Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- * Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Received JUN 06 2005 Tristar Energy

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev.4/1/83
HAL1189

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ERSkine Energy, LLC	254058	02	Bee
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	**6. API No.**		**7. Drilling Permit No.**
Wildcat	42-025-33316		557020
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
Barrow			1

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				5/9/2005			
13. *Drilled hole size				6 7/8			
*Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				5 1/2			
15. Top of liner (ft)							
16. Setting depth (ft)				1164			
17. Number of centralizers used							
18. Hrs. waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks >			120			
	Class >			PREM			
	Additives >			SEE BELOW			
2nd Slurry	No. of sacks >						
	Class >						
	Additives >						
3rd Slurry	No. of sacks >						
	Class >						
	Additives >						
1st	20. Slurry pumped: Volume (cu.ft.) >			187.2			
	Height (ft.) >			2860.2			
2nd	Volume (cu.ft.) >						
	Height (ft.) >						
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >			187.2			
	Height (ft.) >			2860.2			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				NO			

22 Remarks

ERSKINE ENERGY
BARROW # 1
BEE

LEAD CEMENT: 35% SSA-2; 49 PPS HIDENSE; 0.4% HALAD-344; 0.6% HALAD-413; 0.5% CFR-3

TAIL CEMENT:

0.5% SUPER CBL; 0.2% D-AIR 3000; 0.35% HR-12

Well Owner: ERSKINE ENERGY
Sales Order: 3702533

OVER →

CEMENTING TO PLUG AND ABANDON	PLU( )	PLUG #2	PLUG #3	PLUG #4	PLU[redacted]	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu.ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

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THOMAS M. KROLL — Service Supervisor
Name and Title of Cementer's Representative

HALLIBURTON ENERGY SERVICES
Cementing Company

X [signature]
Signature

101 HOLT ROAD — VICTORIA TX — 77905
Address — City, State, — Zip Code

361-575-1443
Tel: Area Code Number

5/9/2005
Date: Mo. Day Yr.

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Leah Moon Beeton
Typed or Printed Name of Operator's Representative

Regulatory Tech
Title

Leah Moon Beeton
Signature

11700 old Katy Rd #1200 Houston, TX 77079
Address — City, State Zip Code

(713) 400-9276
Tel: Area Code Number

02-23-07
Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

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MULTI-SHOT
Directional Services
P.O. Box 4357
Corpus Christi, Texas 78469-4357
(361)289-7272 Fax (361)289-7320

June 2, 2005

The Railroad Commission of Texas
Oil & Gas Division
P.O. Drawer 12967
Capital Station
Austin, Texas 78711-2967

Attention: Ms. Cathy Garrison

RE: Erskine Energy, LLC.
Barrow, Well #1
Survey: Garrett Roache / Abstract 59
Field: Wildcat
BEE County County, TX
API Number: 42-025-33316

Ms. Garrison:

Please find enclosed the original and one copy of the survey performed on the above referenced well by Multi-Shot Directional Services, LLC. Other information required by your office is as follows:

Name of Surveyor	Drainhole Number	Surveyed Depths	Date Performed	Type of Survey
Carl Olivier	Original	Surface – 12,415'	04/08-09/05	SRG

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Duke Hight
Operations

025-33316

MULTI-SHOT
Directional Services

Job Number: 051117509337
Company: Erskine Energy LLC.
Lease/Well: Barrow, Well #1
Location: BEE County
Rig Name: Nabors #2
RKB:
G.L. or M.S.L.:

State/Country: Texas/USA
Declination: East To Grid
Grid: 3.50°
File name: F:\2005SU~1\ERSKIN~1\BARROW1.SVY
Date/Time: 04-May-05 / 16:53
Curve Name: Surface - 12,415' M.D.

025-33316

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	.32	125.21	200.00	-.32	.46	-.32	.56	125.21	.16
400.00	.09	155.21	400.00	-.79	.98	-.79	1.26	128.80	.12
600.00	.18	89.48	600.00	-.93	1.36	-.93	1.64	124.29	.08
800.00	.12	154.25	800.00	-1.11	1.76	-1.11	2.09	122.24	.08
1000.00	.31	120.88	1000.00	-1.58	2.32	-1.58	2.81	124.24	.11
1200.00	.29	120.63	1199.99	-2.11	3.22	-2.11	3.85	123.30	.01
1400.00	.39	95.06	1399.99	-2.43	4.33	-2.43	4.97	119.31	.09
1600.00	.48	94.12	1599.98	-2.55	5.85	-2.55	6.38	113.58	.05
1800.00	.25	73.68	1799.98	-2.49	7.10	-2.49	7.52	109.32	.13
2000.00	.42	281.54	1999.98	-2.22	6.80	-2.22	7.15	108.08	.33
2200.00	.75	254.35	2199.97	-2.43	4.82	-2.43	5.40	116.72	.21

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
2400.00	1.19	260.05	2399.94	-3.14	1.52	-3.14	3.49	154.22	.22
2600.00	1.04	271.27	2599.90	-3.46	-2.34	-3.46	4.18	214.13	.13
2800.00	.64	256.74	2799.88	-3.67	-5.25	-3.67	6.40	235.00	.23
3000.00	.43	196.47	2999.87	-4.65	-6.55	-4.65	8.03	234.61	.28
3200.00	.46	212.78	3199.87	-6.04	-7.19	-6.04	9.40	229.96	.06
3400.00	.20	261.33	3399.86	-6.77	-7.97	-6.77	10.46	229.66	.18
3600.00	.22	265.01	3599.86	-6.86	-8.70	-6.86	11.08	231.75	.01
3800.00	.16	321.42	3799.86	-6.67	-9.26	-6.67	11.41	234.21	.09
4000.00	.64	266.60	3999.85	-6.52	-10.55	-6.52	12.40	238.27	.28
4200.00	.64	243.94	4199.84	-7.08	-12.66	-7.08	14.51	240.80	.13
4400.00	.86	253.86	4399.83	-7.99	-15.11	-7.99	17.09	242.14	.13
4600.00	1.16	246.54	4599.79	-9.21	-18.41	-9.21	20.58	243.42	.16
4800.00	1.46	236.23	4799.74	-11.43	-22.38	-11.43	25.13	242.95	.19
5000.00	.83	219.54	4999.70	-13.96	-25.42	-13.96	29.01	241.22	.35
5200.00	.22	316.32	5199.69	-14.80	-26.61	-14.80	30.45	240.91	.44
5400.00	.59	289.39	5399.69	-14.18	-27.85	-14.18	31.25	243.01	.20
5600.00	.31	295.22	5599.68	-13.61	-29.31	-13.61	32.32	245.09	.14
5800.00	.31	288.32	5799.68	-13.21	-30.31	-13.21	33.07	246.45	.02
6000.00	.23	281.83	5999.68	-12.96	-31.22	-12.96	33.80	247.46	.04
6200.00	.45	297.10	6199.67	-12.52	-32.30	-12.52	34.65	248.81	.12
6400.00	.40	289.02	6399.67	-11.94	-33.65	-11.94	35.71	250.46	.04
6600.00	.30	306.38	6599.67	-11.40	-34.74	-11.40	36.56	251.83	.07
6800.00	.40	337.45	6799.66	-10.45	-35.43	-10.45	36.93	253.57	.11
7000.00	.45	353.13	6999.66	-9.02	-35.79	-9.02	36.91	255.85	.06
7200.00	.45	4.79	7199.65	-7.46	-35.82	-7.46	36.58	258.23	.05
7400.00	.57	35.61	7399.64	-5.87	-35.17	-5.87	35.66	260.52	.15
7600.00	.68	70.65	7599.63	-4.67	-33.47	-4.67	33.80	262.06	.20
7800.00	.96	61.05	7799.61	-3.46	-30.89	-3.46	31.08	263.60	.16
8000.00	.95	58.14	7999.58	-1.78	-28.01	-1.78	28.07	266.37	.02
8200.00	.58	70.04	8199.56	-.56	-25.65	-.56	25.66	268.76	.20
8400.00	.73	69.37	8399.55	.24	-23.51	.24	23.51	270.58	.08
8600.00	.88	66.68	8599.53	1.29	-20.90	1.29	20.94	273.54	.08

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
8800.00	.94	71.11	8799.51	2.43	-17.94	2.43	18.11	277.72	.05
9000.00	.98	85.13	8999.48	3.11	-14.69	3.11	15.01	281.96	.12
9200.00	1.20	94.01	9199.44	3.11	-10.89	3.11	11.33	285.93	.14
9400.00	1.48	90.77	9399.39	2.93	-6.22	2.93	6.88	295.20	.14
9600.00	1.47	89.21	9599.32	2.93	-1.07	2.93	3.12	339.87	.02
9800.00	1.51	90.38	9799.25	2.95	4.13	2.95	5.07	54.48	.03
10000.00	1.91	85.42	9999.16	3.19	10.08	3.19	10.58	72.42	.21
10200.00	1.76	85.02	10199.06	3.73	16.47	3.73	16.88	77.24	.08
10400.00	1.89	101.71	10398.96	3.32	22.76	3.32	23.00	81.69	.27
10600.00	1.33	110.71	10598.88	1.83	28.16	1.83	28.22	86.27	.31
10800.00	1.94	94.53	10798.80	.75	33.70	.75	33.71	88.73	.38
11000.00	1.88	79.79	10998.69	1.06	40.31	1.06	40.32	88.49	.25
11200.00	1.95	80.85	11198.58	2.18	46.89	2.18	46.94	87.33	.04
11400.00	1.91	82.51	11398.47	3.16	53.56	3.16	53.65	86.62	.03
11600.00	1.80	77.81	11598.36	4.26	59.93	4.26	60.08	85.94	.09
11800.00	.99	78.37	11798.30	5.27	64.69	5.27	64.91	85.34	.41
12000.00	1.56	57.98	11998.25	7.06	68.70	7.06	69.06	84.13	.36
12200.00	.81	32.30	12198.21	9.70	71.76	9.70	72.41	82.30	.45
12400.00	1.32	23.63	12398.17	13.00	73.44	13.00	74.58	79.96	.27
Last Survey Depth Recorded									
12415.00	1.57	26.41	12413.17	13.35	73.60	13.35	74.80	79.72	1.73

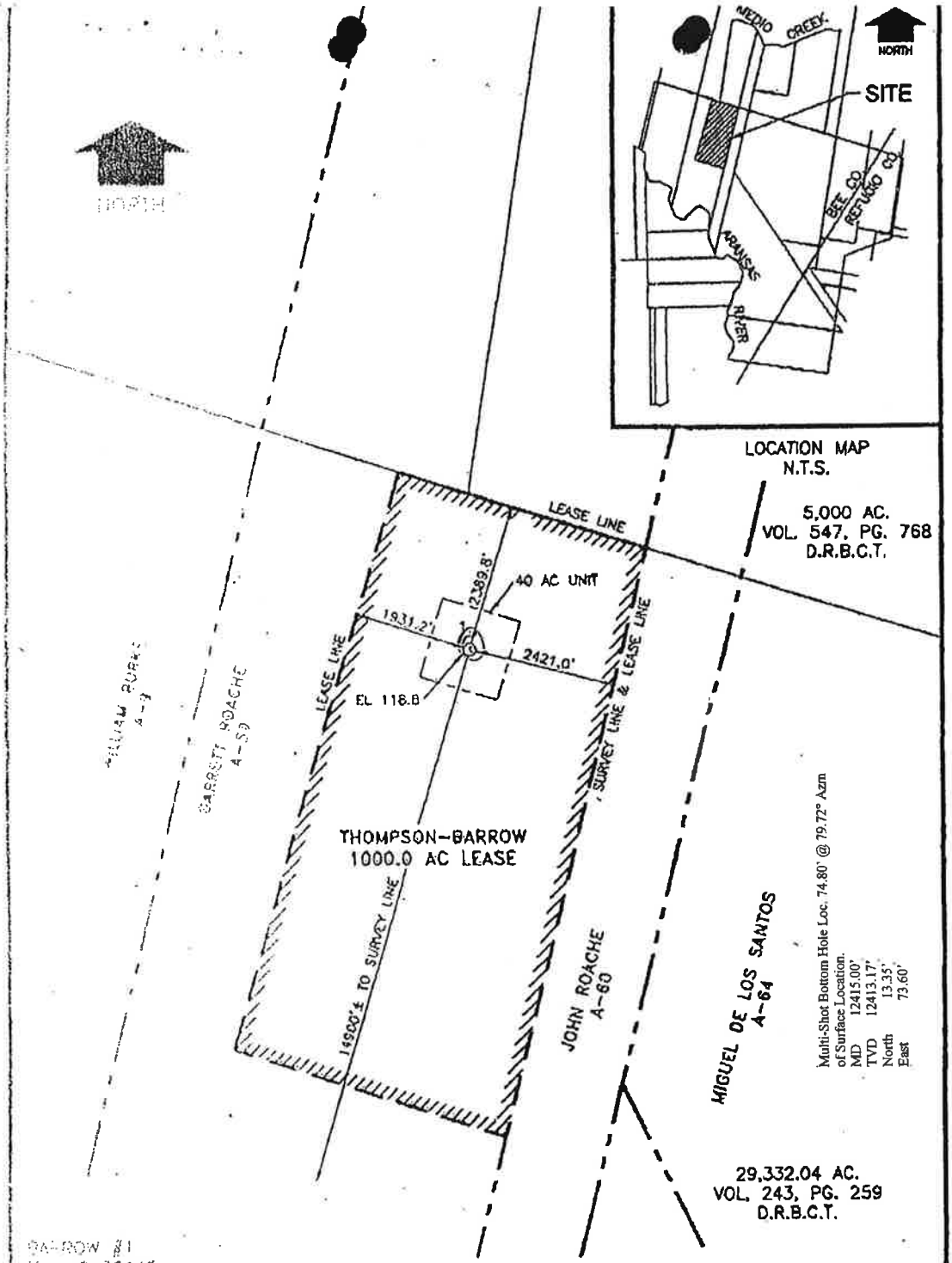
MULTI-SHOT
A BWWC Company

P. O. Box 630
Broussard, LA 70518-0630
Phone 337-839-8400
800-259-2867
Fax 337-839-8401

State of Texas
County of Woodbutoe

I, Carl Olivier, certify that; I am employed by Multi-Shot that I did on the day(s) of 4-8-05 through 4-9-05 conduct or supervise the taking of a SAG Multishot survey from a depth of 0 feet to a depth of 12415 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Multi-Shot; that I am authorized and qualified to make this report; that this survey was conducted at the request of Erskine Energy for the Bannon #1 well; API No 42-025-33316 in Bee Co. Tx. and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Multi-Shot.

Carl Olivier
Service Technician



BARROW #1
Y = 2472145
X = 171392
EL = 116.8
TIES TO LEASE LINE
2389.8' NORTH LINE
1931.2' WEST LINE
TIES TO SURVEY LINE
2421.0' EAST LINE
15,000'± SOUTH LINE
DIST. TO NEAREST TOWN
6 MILES NORTHEAST OF PAPALOTE

I, JAMES M. NAISMITH, DO HEREBY STATE THAT THIS LOCATION WAS STAKED ON THE GROUND ON JANUARY 26, 2005 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF TEXAS
REGISTERED
JAMES M. NAISMITH
4828
PROFESSIONAL
LAND SURVEYOR

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 4828

1/26/2005
DATE

NOTE: COORDINATES ARE BASED ON TEXAS SOUTH CENTRAL ZONE N.A.D. 27

PLAT SHOWING WELL LOCATION FOR
ENSIGNE ENERGY, LLC
BARROW #1
GARRETT ROACHE SURVEY A - 59
BEE COUNTY, TEXAS

DWG. No. : 05253-000
SCALE 1" = 2000'
DATE : 1/26/05
DWN. BY : AF

MAVERICK ENGINEERING, INC.
P.O. BOX 6004 CORPUS CHRISTI, TX 78466
TEL (361) 289-1338 FAX (361) 289-0773

Enter if Assigned: API No.: 42- 025-33316

Drilling Permit No.: 557020

Rule 37/38 Case No.:

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE OR RE-ENTER

FORM W-1 07/2004

Drilling Permit Fee Based on Depth:
0'-2000' $200 2000'-4000' $225
4001'-9000' $250 >9000' $300
Expedited Service Fee ADD $150
Rule 37/38 Exception Fee ADD $200

1. RRC Operator No.: 254058
2. Operator Name (as shown on P-5 Organization Report): ERSKINE ENERGY, LLC
3. Operator Address (include street, city, state, zip): 2500 CITYWEST BLVD STE 300 HOUSTON TEXAS 77042
4. Lease Name: BARROW
5. Well No.: 1

X RECEIVED RRC OF TEXAS JAN 31 2005 O&G AUSTIN TX

GENERAL INFORMATION

6. Purpose of Filing (Mark ALL appropriate boxes): ☒ New Drill ☐ Recompletion ☐ Reclass ☐ Field Transfer ☐ Re-enter ☐ Amended ☐ Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (Mark ALL appropriate boxes): ☒ Vertical ☐ Horizontal (Also File Form W-1H) ☐ Directional (Also File Form W-1D) ☐ Sidetrack

8. Total Vertical Depth: 17,000'
9. Do you have the right to develop minerals under any right of way? ☐ Yes ☒ No
10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? ☐ Yes ☒ No

Permit Granted 1/31/05

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.: 02
12. County: BEE
13. Surface Location: ☒ Land ☐ Bay/estuary ☐ Inland waterway ☐ Offshore

14. This well is to be located 9 miles in a NE direction from PAPALOTE, which is the nearest town in the county.

15. Section:
16. Block:
17. Survey: GARRETT ROACHE
18. Abstract No.: 59
19. Distance to nearest lease line: 1931.2'
20. Number of contiguous acres in lease, pooled unit or unitized tract: 1000

21. Lease Perpendiculars: 1931.2' ft. from the WEST line and 2389.8' ft from the NORTH line.

22. Survey Perpendiculars: 2421' ft from the EAST line and 14900' ft from the SOUTH (River) line.

23. Is this a pooled unit? ☐ Yes ☒ No
24. Unitization Docket No.:
25. Are you applying for Substandard Acreage Field? ☐ Yes (attach Form W-1A) ☒ No

FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line. Attach an additional Form W-1 if you require more space.

26. RRC District No.	27. Field No:	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. No. of Wells on this Lease in this Reservoir
02	00004 001	WILDCAT 467/1200/40	O & G	17,000'	N/A	1

BOTTOM HOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS - Attach FORM W-1D/FORM W-1H as appropriate

Remarks:

93224 212763 557020

RRC Use only

CERTIFICATE:

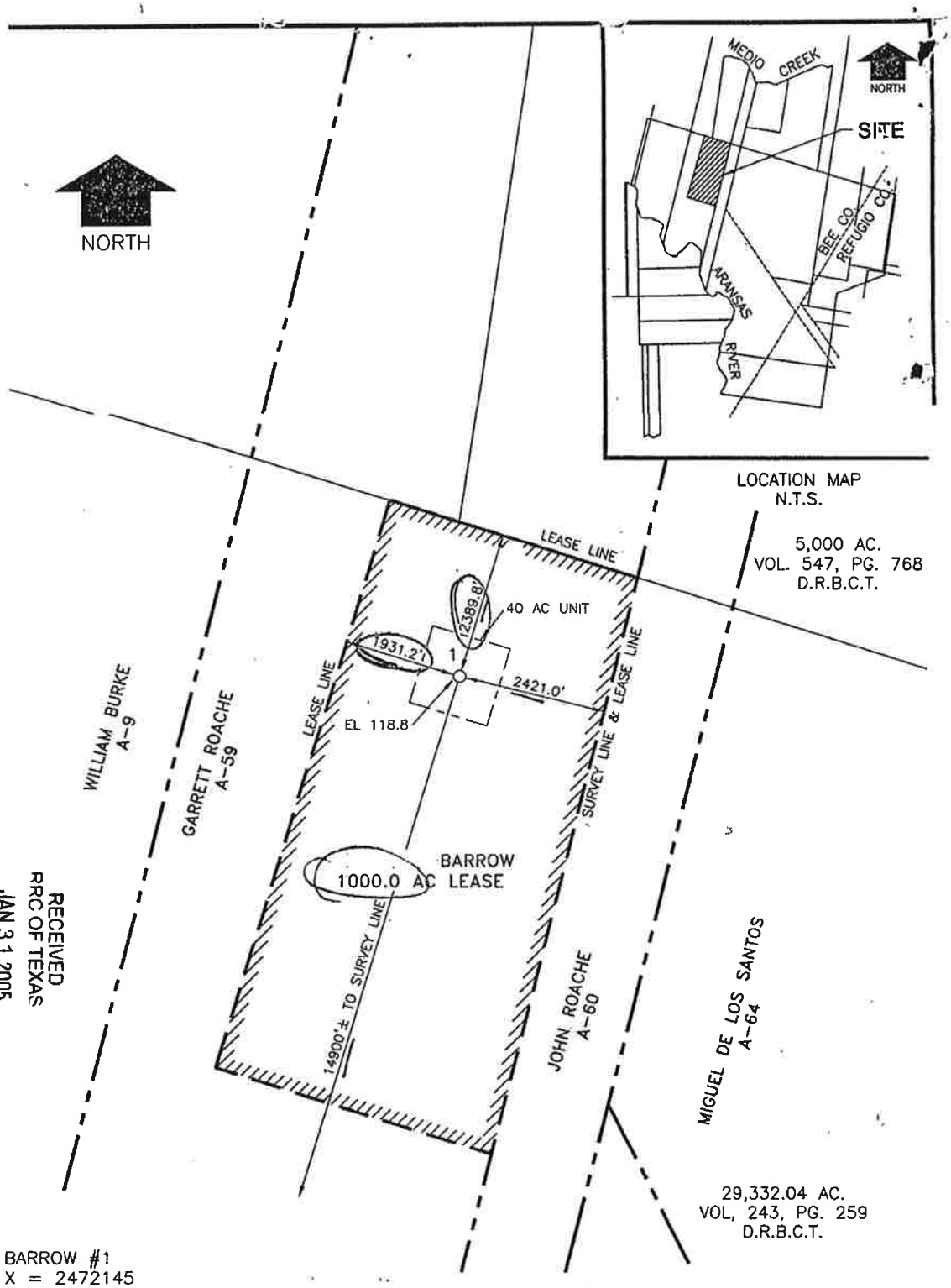
I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge.

DWAYNE JAMMAL — Name of Representative (Print)
Dwayne Jammal/RKW — Signature
01/27/05 — Date (mm/dd/yy)

(713) 974-3322 — Telephone (AC and number)

E-mail Address (OPTIONAL - If provided, e-mail address will become part of this public record.)

MAPPING 025-33316



RECEIVED
RRC OF TEXAS
JAN 31 2005
O&G
AUSTIN TX

BARROW #1
X = 2472145
Y = 171392
EL = 118.8
TIES TO LEASE LINE
2389.8' NORTH LINE
1931.2' WEST LINE
TIES TO SURVEY LINE
2421.0' EAST LINE
15,000'± SOUTH LINE
DIST. TO NEAREST TOWN
9 MILES NORTHEAST OF PAPALOTE

STATE OF TEXAS
REGISTERED
JAMES M. NAISMITH
4828
PROFESSIONAL
LAND SURVEYOR

I, JAMES M. NAISMITH, DO HEREBY STATE THAT THIS LOCATION WAS STAKED ON THE GROUND ON JANUARY 26, 2005 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 4828

1/26/2005
DATE

NOTE: COORDINATES ARE BASED ON TEXAS SOUTH CENTRAL ZONE N.A.D. 27

PLAT SHOWING WELL LOCATION FOR
ERSKINE ENERGY, LLC
BARROW #1
GARRETT ROACHE SURVEY A – 59
BEE COUNTY, TEXAS

DWG. No. : 05253-900
SCALE :1" = 2000'
DATE : 1/26/05
DWN. BY : AF

MAVERICK ENGINEERING, INC.
P.O. BOX 9094 CORPUS CHRISTI, TX 78469
TEL: 361 289 1365 FAX: 361 289 0712

API No. 42-025-33316
Drilling Permit # 557020
SWR Exception Case/Docket No.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

FORM W-1 07/2004

Permit Status: Approved

1. RRC Operator No.	2. Operator's Name (as shown on form P-5, Organization Report)	3. Operator Address (include street, city, state, zip):
254058	ERSKINE ENERGY, LLC	11700 OLD KATY ROAD SUITE 1200 HOUSTON, TX 77079

4. Lease Name	5. Well No.
BARROW	1

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [X] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth: 17000

9. Do you have the right to develop the minerals under any right-of-way ? [ ] Yes [X] No

10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? [ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.: 02

12. County: BEE

13. Surface Location: [X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 9 miles in a NE direction from PAPALOTE which is the nearest town in the county of the well site.

15. Section	16. Block	17. Survey	18. Abstract No.	19. Distance to nearest lease line:	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
		ROACHE, G	A-59	1931.2 ft.	1000

21. Lease Perpendiculars: 1931.2 ft from the W line and 2389.8 ft from the N line.

22. Survey Perpendiculars: 2421 ft from the E line and 14900 ft from the S (RIVER) line.

23. Is this a pooled unit? [ ] Yes [X] No

24. Unitization Docket No.:

25. Are you applying for Substandard Acreage Field? [ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION **List all fields of anticipated completion including Wildcat. List one zone per line.**

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	13551500	BURKES RIDGE (VKSBG 4800)	Oil or Gas Well	4850	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks

Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

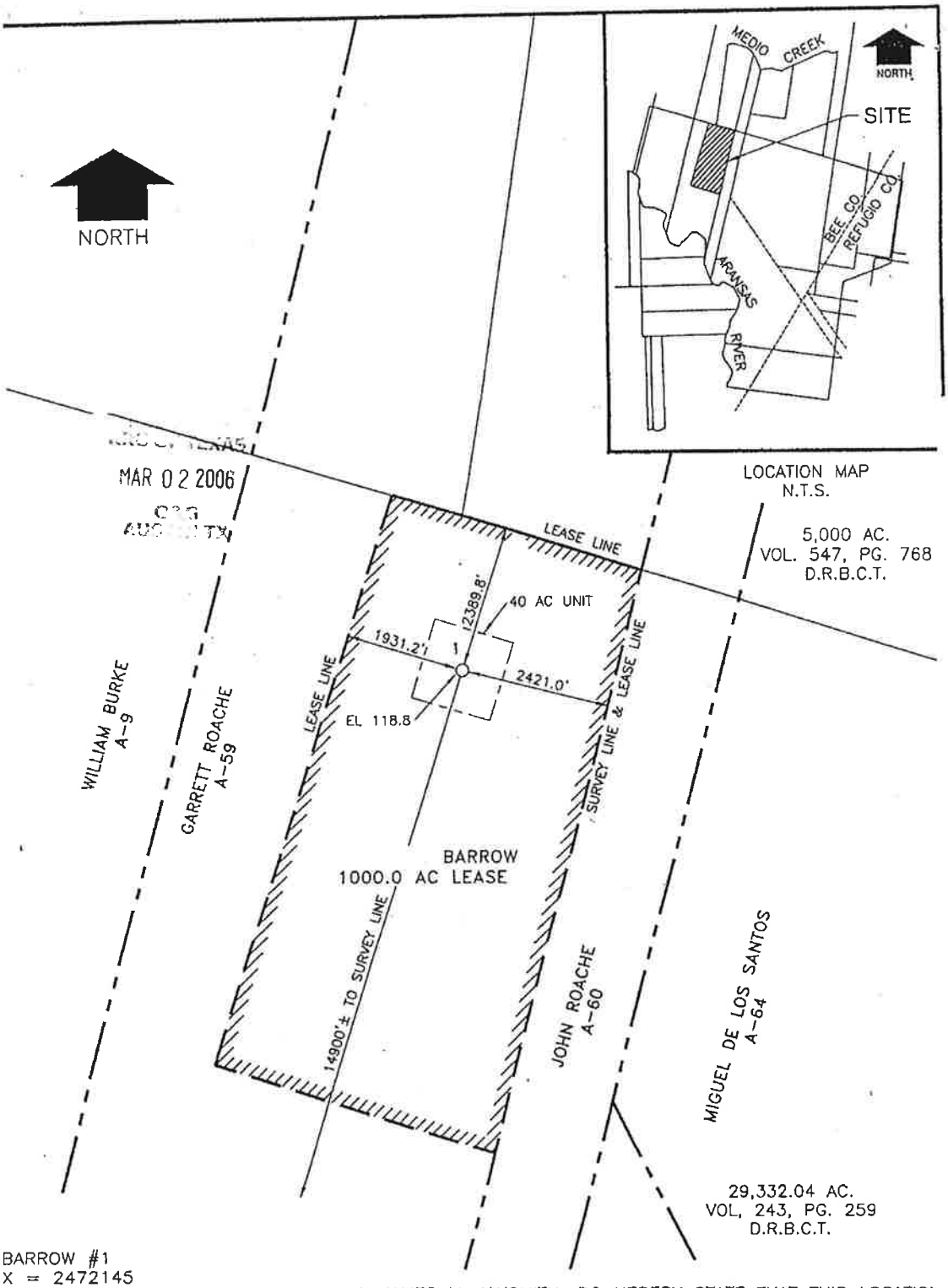
< Mail in Application > — Name of filer

Mar 03, 2006 — Date submitted

Phone

E-mail Address (OPTIONAL)

RRC Use Only Data Validation Time Stamp: Mar 10, 2006 12:53 PM('As Approved' Version)



BARROW #1
X = 2472145
Y = 171392
EL = 118.8

TIES TO LEASE LINE
2389.8' NORTH LINE
1931.2' WEST LINE

TIES TO SURVEY LINE
2421.0' EAST LINE
15,000'± SOUTH LINE

DIST. TO NEAREST TOWN
9 MILES NORTHEAST OF PAPALOTE

STATE OF TEXAS REGISTERED JAMES M. NAISMITH 4828 PROFESSIONAL LAND SURVEYOR

I, JAMES M. NAISMITH, DO HEREBY STATE THAT THIS LOCATION WAS STAKED ON THE GROUND ON JANUARY 26, 2005 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 4828

1/26/2005
DATE

NOTE: COORDINATES ARE BASED ON TEXAS SOUTH CENTRAL ZONE N.A.D. 27

PLAT SHOWING WELL LOCATION FOR ERSKINE ENERGY, LLC **BARROW #1** GARRETT ROACHE SURVEY A – 59 BEE COUNTY, TEXAS	DWG. No. : 05253–800 SCALE : 1" = 2000' DATE : 1/26/05 DWN. BY : AF

MAVERICK ENGINEERING, INC.
P.O. BOX 8094 CORPUS CHRISTI, TX 78468
TEL 361 289 1588 FAX 361 289 0712

MAP ID #43

API# 42-025-30174
OIL WELL
PLUGGED

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42-025-30174 (if available)

1. RRC District: 2

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 082908

2. FIELD NAME (as per RRC Records): Burkes Ridge (1600)

3. Lease Name: Laura D. Thomson "B"

5. Well Number: 10

6. OPERATOR: Exxon Corporation

6a. Original Form W-1 Filed in Name of:

10. County: Bee

7. ADDRESS: P. O. Box 2528, Corpus Christi, TX 78403-2528

6b. Any Subsequent W-1's Filed in Name of

11. Date Drilling Permit Issued: 3-16-79

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 2000 Feet From north Line and 7000 Feet From east Line of the Laura D. Thomson "B" Lease

12. Permit Number: 044459

9a. SECTION, BLOCK, AND SURVEY: Garrett Roache (A-59)

9b. Distance and Direction From Nearest Town in this County: 9.7 miles NE of Skidmore, TX

13. Date Drilling Commenced: 5-29-79

16. Type Well (Oil, Gas, Dry): Gas

Total Depth: 4968

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 6-4-79

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 09/08/89

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	090789	090889	090889	090889	090889			
20. Size of Hole or Pipe in which Plug Placed (inches)	5½	5½	5½	5½	5½			
21 Depth to Bottom of Tubing or Drill Pipe (ft.)	1609	1609	1210	700	105			
*22. Sacks of Cement Used (each plug)	18	22	15	15	12			
*23. Slurry Volume Pumped (cu. ft.)	21.24	25.96	17.7	17.7	14.16			
*24. Calculated Top of Plug (ft.)	1500	1500	1090	580	5			
25. Measured Top of Plug (if tagged) (ft.)	NoPlug	1462						
*26. Slurry Wt. #/Gal.	15.6	15.6	15.6	15.6	15.6			
*27. Type Cement	ClassH	ClassH	ClassH	ClassH	ClassH			

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	636	636	11
5½	14	4965	4965	7 7/8
2 3/8	4.7	1403	0	

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? [X] Yes [ ] No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

1) Top of Junk ± 1403'.
2) Bottom portion of Baker AD-1 tension pkr.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4808	TO	4813	FROM	1602	TO	1607
FROM	2739	TO	2743	FROM		TO	
FROM	2034	TO	2042	FROM		TO	
FROM	1650	TO	1655	FROM		TO	
FROM	1604	TO	1609	FROM		TO	

RECORD CODIFICATION
SEP 26 1989

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Culberson Well Service, Inc. 09/14/89
Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Linda Annis — REPRESENTATIVE OF COMPANY
Proration Specialist — TITLE
9-19-89 — DATE
Phone 512 — A/C
889-7108 — NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R.R.C. OF TEXAS
SEP 20 1989
O.G.
SAN ANTONIO, TX

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — [XX] Yes [ ] No

32. How was Mud Applied? Pumped thru tbg.

33. Mud Weight 9.8 LBS/GAL

34. Total Depth 4968

Depth of Deepest Fresh Water 1150

Other Fresh Water Zones by T.D.W.R. (TOP / BOTTOM)

35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well

Culberson Well Service, Inc., P. O. Box 2266, Victoria, TX 77902

Date RRC District Office notified of plugging 09/07/89

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

HEWIT & DOUGHERTY Lambert Plaza Refugio, Texas 78377

WISER OIL COMPANY c/o AVTC 560 West Main, Suite 202 Louisville, Texas 75067

OXOCO EXPLORATION c/o Clarke Company 2510 Times Blvd. Houston, Texas 77005

W.C. MILLER 1110 Alamo National Bank Building San Antonio, Texas 78205

MARTY L. GRIFFITH & ASSOCIATES 11211 Katy Freeway, Suite 606 Houston, Texas 77079

UTX EXPLORATION, INC. P.O. Box 4548 Victoria, Texas 77903

39. Was Notice Given Before Plugging to Each of the Above?

yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS ~~No production casing recovered.~~
Cut & capped well 5' below ground level.

HARDWOOD EXPLORATION, INC. 720 Mesquite Corpus Christi, Texas 78401

AMOCO PRODUCTION COMPANY P.O. Box 3092 Houston, Texas 77253

MUELLER ENGINEERING CORPORATION 1010 First City Tower II Corpus Christi, Texas 78478

HEAD & WELSH P.O. Box 16290 Houston, Texas 77222

Thomas D. Barrow 1010 Lamar Suite 400 Houston, Texas 77002

0 0 0 0 5 2 0 2 2 8 0 NEW FIELD NF

Form G-1
Rev. 6/12/78

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

API No. Available

7. RRC District: 2

8. RRC Identification Number: 78782

9. Well Number: 10

10. County: BEE

11. Purpose of Test: Initial Potential [X] Retest [ ] Recloss [ ]

13551 850

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (as per RRC Records or Wildcat): BURKES RIDGE (2040)

2. LEASE NAME: LAURA D. THOMSON "B"

3. OPERATOR: EXXON CORPORATION

4. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78476

5. LOCATION (Section, Block, and Survey): GARRETT ROACH (A-59)

5b. Distance and Direction from nearest town in this county: 9.7 MILES NE OF SKIDMORE

6. If Operator has changed within last 60 days - Give former Operator:

12. If Workover or Reclass, give former Field (with Reservoir) & Gas ID or Oil Lease #.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	OIL - O Gas - G	WELL #
BURKES RIDGE (GRETA)	56150	G	10

13. Pipe Line Connection

14. Completion or Recompletion Date: 8-14-78

15. List of Offset Operators Notified and Date of Notification

Any Condensate on hand at time of Workover or Recompletion? [ ] Yes [X] No

16. Type of Electric or other Log Run.

NFD 10/2/78

Section I — GAS MEASUREMENT DATA

Date of Test: 8-14-78

Gas Measurement Method (Check One): Orifice Meter [X] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 92 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.900	.625	2451.42	788	61.0	86	.9759	1.0305	1.049	567
2				790	40.0	86	.9759	1.0305	1.049	460
3				780	25.0	86	.9759	1.0305	1.049	361
4				780	12.0	88	.9741	1.0305	1.046	249

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.565	--- Deg. API	Dry CF/Bbl	G_{mix} = .565	94 °F	114 °F @ 2039' (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\ }$ = $\sqrt{GL}$ = $\sqrt{\ }$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = $\frac{\sqrt{GL}}{C}$ =

NOV 14 1978

Run No.	Time of Run Min.	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_i	P_w/P_i
Shut-In	24hrs.		852	74					
1	150	14/64	841	80					
2	45	Adj.	843	80					
3	45	Adj.	845	80					
4	45	Adj.	847	80					

Run No.	F	K	$S = \frac{1}{n}$	g^{ks}	P_i and P_w	P_i^2 and P_s^2	$P_i^2 - P_s^2$
Shut-In					884	781	
1	Used Amerada				872	760	21
2	1.25" BHP Gage				874	764	17
3	4000# Element				876	767	14
4	SN: 37222				878	771	10

Angle of Slope: θ = 45°, n = 1.000

Absolute Open Flow: 21000 MCF/DAY

An inclination survey has been run in accordance with Statewide Rule 11 and the results are available upon request. Maximum horizontal displacement was _____ feet at a measured depth of _____ feet.

Signature of Authorized Representative

Name of Company Conducting Survey

RECEIVED R.R.C. OF TEXAS

I have knowledge that the cementing operations, as reflected by the information found on the reverse side of this form, were performed as indicated by such information.

SEP 13 1978

Signature of Cementer or Authorized Representative

Name of Cementing Company

RECEIVED

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report and that this report was prepared by me or under my supervision and direction and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — REPRESENTATIVE OF COMPANY GRADY COYLE

PRORATION SPECIALIST — TITLE

SEP 6 1978 — DATE

Phone: 512-884-4571 — AREA CODE NUMBER

028440

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☒

18. Permit to Drill, Plug Back or Deepen — DATE: 7-13-78 — PERMIT NO.: 028440
Rule 37 Exception — CASE NO.:
Water Injection Permit — PERMIT NO.:
Salt Water Disposal Permit — PERMIT NO.:
Other — PERMIT NO.:

19. Notice of Intention to Drill this Well was filed in Name of: EXXON CORPORATION

20. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

21. Total Number of Acres in this Lease: 10500

22. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 8-2-78 Completed 8-14-78

23. Distance to Nearest Well, Same Lease & Reservoir: —

24. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 2000 Feet From NORTH Line And 7000 Feet From EAST Line of the LAURA D. THOMSON "B" Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 110' DF

26. Was Directional Survey Made Other Than Inclination (Form W-12)? ☐ Yes ☒ No

27. Top of Pay: 2035

28. Total Depth: 4965

29. P. B. Depth: 2097

30. Surface Casing Determined by: Field Rules ☐ Recommendation of T.D.W.R. ☐ Dt. of Ltr. ____ Railroad Commission (Special) ☒ Dt. of Ltr. 10-30-72

31. Is Well Multiple Completion? Yes ☐ No ☒

32. If Multiple Completion List All Reservoir Names (Completion in this Well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	OIL LEASE # / GAS ID #	Oil - O Gas - G	WELL #

33. Intervals Drilled by: Rotary Tools X Cable Tools

34. Name of Drilling Contractor:

35. Is Cementing Affidavit Attached? Yes ☐ No ☒

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (Sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8-5/8	24	635.52		400 SX	11"	SURFACE	778
5-1/2	14	4953.50		1050 SX	7-7/8	SURFACE	1602

37. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2-7/8	1810	1810

39. Producing Interval (this completion) Indicate Depth of Perforation or Open Hole

From	2035	To	2042
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
2739-63	CIBP @ 2117 W/20' CMT ON TOP

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
SD & CG	0-1604	SU E SD	4550-4965
SU E SD	1604-3616		
SH	3616-4554		

REMARKS

#028440

FORM W-1 (6/78)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

☐ Directional Well ☐ Amended or Corrected Permit

API Well No. 42 — Instruction (3a & b) on back side. 025-00000

RRC Permit Number assigned. 2-10-78782

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: ☐ DRILL ☐ DEEPEN (Below Casing) ☐ DEEPEN (Within Casing) ☐ PLUG BACK ☒ OTHER (Specify) Recomplete

If Amended Application, explain fully in Remarks or Attach Separate Page.

1. Operator: Exxon Corporation

2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, TX 78476

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES ☒ NO ☐ (Instruction (3) on back side.)

4. Lease Name and RRC Lease or ID No. (If Assigned): Laura D. Thomson "B"

5. Location (Sec., Blk., Survey): Garrett Roach (A-59)

6. This well is to be located 9.7 miles NE Direction from Skidmore, Texas Nearest Post Office or Town.

7. RRC District: 2

8. County: Bee

9. Well Number: 10

10. Number of Acres in Lease: 10,500

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 2000'

12. Total Depth: 4965

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	14. Completion Depth	15. All Prior Rule 37 Exc. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing, Pattern, Misc. Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density, Pattern, Misc. Rules, State 40 (Acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same field? (Yes or No. If yes explain in remarks.)	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested? OIL	GAS
00004001 Wildcat above	4965	-	467-1200	40	40	No	-	Regular ☒ Rule 37 ☐	Gas	-	-
								Regular ☐ Rule 37 ☐			
								Regular ☐ Rule 37 ☐			
								Regular ☐ Rule 37 ☐			

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED:
A. Lease Lines 2000' south of the north line and 7000' west of the east line.
B. Survey Lines 1900' west of the east line and 14,400' north of a south line.

25. (a) Is this wellbore subject to SWR 36? Yes ☐ No ☒
(b) If subject to SWR 36, has Form H-9 been filed? (If no, attach explanation.) ☐

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS:

RECEIVED
R.R.C. OF TEXAS
JUL 12 1978
OG
SAN ANTONIO, TEXAS

Signature: Grady Coyle
Title: Grady Coyle, Proration Specialist
Date: July 11, 1978
Telephone: Area Code 512 884-4571

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

SPS

00025022344

PLEASE WIRE ALLOWABLE

12-21-72

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev 7/1/69

Burkes Ridge (VKSBG 4800)

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (as per RRC Records or Wildcat) Burkes Ridge (VKSBG 4800)	2. LEASE NAME Laura D. Thomson "B"
3. OPERATOR Humble Oil & Refining Company 412930	4. ADDRESS Wilson Tower, Corpus Christi, Texas 78401
5. If Operator has changed within last 60 Days — Give former Operator	
6. LOCATION (Section, Block, and Survey) Garrett Roach (A-59) 9½ Mi NE of Beeville	
12. If Workover — Give former Field (with Reservoir,	13. Type of Electric or other Log run Induction

7. RRC District 2
8. RRC Lease No. 04293
9. 10
10. County Bee
11. Purpose of Test: Initial Potential [X] Retest [ ] Recless [ ]
14. Completion Date 12-6-72

Section

POTENTIAL TEST DATA

15. Date of Test 12-7-72	16. No. of Hours Tested 10.75	17. Production Method (Flowing, Gas Lift, Jetting, Pumping — Size & Type of Pump) Flowing				18. Choke Size 12/64
19. Production for Test Period	Oil – BBLS 101.1	Gas – MCF 190	Water – BBLS 11.2	Gas – Oil Ratio 1879		Flowing Tubing Pressure 925 PSI
20. Calculated 24 Hour Rate	Oil – BBLS 225.8	Gas – MCF 424	Water – BBLS 25.1	Oil Gravity – API – 60° 26.4		Casing Pressure Sealed PSI

21. Was Swab or Artificial Flowing Device Used During this Test? Yes [ ] No [X]
22. Oil Produced Prior to Test (New & Reworked Wells) 39 Bbls(Cleanup Oil) Previous Day
23. Injection Gas–Oil Ratio None

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

FESCO, INC.
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

List of Offset Operators Notified:
Texaco, Inc.

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

Date of Notification:

DEC 12 1972

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Cogle — Proration Specialist — 12-11-72
REPRESENTATIVE OF COMPANY — TITLE — DATE

REMARKS

025 36174

Field Rule 1 (19) Down 10 OK — N. to S. 10 @ 100 N Ends, E.W. 12/7/72

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

25. Date Permit Issued: 10-27-72

26. Notice of Intention to Drill this Well was filed in Name of: Humble Oil & Refining Company

27. If Special Permit, Give Permit Number:

28. Number of Producing Wells on this Lease in This Field (Reservoir) Including this Well: 1

29. Total Number of Acres in this Lease: 10,500

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 10-31-72; Completed 12-6-72

31. Distance to Nearest Well, Same Lease & Reservoir: --

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 2000 Feet From W of E Line of The Laura D. Thomson "B" Lease And 7000 Feet From S of N Line

33. Elevation (DF, RKB, RT, GR, ETC): 110'

34. Was Directional Survey Made: Yes [ ] No [X]

35. Top of Pay: 4806

36. Total Depth: 4965

37. P.B. Depth: 4937

38. Surface Casing Determined By: Recommendation of Texas Water Development Board [X] Field Rules [ ] Railroad Commission (Special) [X]

39. Is Well Multiple Completion? Yes [ ] No [X]

40. If Multiple Completion List All Reservoir Names (Completions in this Well):

41. Intervals Drilled By: Rotary Tools: X; Cable Tools:

42. Name of Drilling Contractor: Southland Drilling Company

43. Is Cementing Affidavit Attached? Yes [X] No [ ]

44. CASING RECORD (Report All Strings Set in Well)

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
8-5/8"	24	635.52	11"	400 sx. Class A	12% Gel
5-1/2"	14	4953.50	7-7/8"	1050 sx. TLW	

45. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

46. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8"	4725	4725

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole:

From	4808	To	4813
From		To	
From		To	
From		To	

48. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4803-4813	Perf. w/1-9/16 RTG 2 shots/foot

49. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Surface Clay & Sand	0 - 650		
Sand & Clay	650 - 1604		
Shale & Sand	1604 - 3616		
Shale	3616 - 4554		
Shale & Sand	4554 - 4965		

REMARKS

O C 2 RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 9-27-57)

CEMENTING REPORT

(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) MEDIO CREEK, SE	*2. RRC District 2
*3. Operator HUMBLE OIL & REFINING COMPANY	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA D. THOMSON B	*6. Well Number 10
*7. Location (Section, Block, and Survey) GARRETT ROACH (A-59)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	11-1-72		11-7-72			
*9. (a) Size of Drill Bit (inches)	11		7-7/8"			
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)	8 5/8		5-1/2"			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	6355		4978			
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	Class 'A' + 12% Gel		*Remarks			
(b) In Second Slurry	Class 'A' + 2% $CaCl_2$		*Remarks			
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	300		500			
(b) In Second Slurry	100		550			
(c) In Third Slurry						
(d) Total Sacks of Cement Used	400		1,050			
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.20		1.81			
(b) In Second Slurry	1.18		1.34			
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	660		905			
(b) In Second Slurry	118		737			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	778		1,642			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	635		4,978			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes		Yes			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (Inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
DEC 12 1972
CORPUS CHRISTI, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

2-04693

26. Remarks: HUMBLE OIL & REFINING COMPANY
L. D. Thompson B-10 -- Thompson Ranch
Bee County

PRODUCTION CASING:

13. (a) 500 sx. TLW.
(b) 750 sx. 1-1 TALC 'H'

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Henry Poe
Signature of Cementer or Authorized Representative

Henry Poe -- Service Supervisor
Name of Person and Title (type or print)

THE WESTERN COMPANY
Cementing Company

P. O Box 1186
Street Address or P.O. Box

Robstown, Texas 78380
City, State Zip Code

Telephone 512 387-1523
Area Code

November 7, 1972
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

HUMBLE OIL & REFINING COMPANY
*Operator

WILSON TOWER
*Street Address or P.O. Box

CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

*Date

– INSTRUCTIONS –

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

0 0 2 2 1 3 0

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): MEDIO CREEK, SE [illegible] SE	2. LEASE NAME: Laura D. Thomson "B"
3. OPERATOR: Humble Oil & Refining Company	
4. ADDRESS: Wilson Tower, Corpus Christi, Texas 78401	
5. LOCATION (Section, Block, and Survey): Garrett Roach (A-59)	
6. RRC District: 2	
7. RRC Lease Number (Oil completions only):	
8. Well Number: 10	
9. RRC Identification Number (Gas completions only):	
10. County: Bec	

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
480	480	1-3/4	3.05	14.64	14.64
1300	820	1/4	.44	3.61	18.25
2250	950	1/4	.44	4.18	22.43
3100	850	1/2	.87	7.40	29.83
3700	600	3/4	1.31	7.86	37.69
4500	800	1-1/4	2.18	17.44	55.13
4965	465	1/4	.44	2.05	57.18

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no
18. Accumulative total displacement of well bore at total depth of 4965 feet = 57.18 feet.
*19. Inclination measurements were made in — ☐ Tubing ☐ Casing ☒ Open hole ☐ Drill Pipe
20. Distance from surface location of well to the nearest lease line 467 feet.
21. Minimum distance to lease line as prescribed by field rules 2000 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No
(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION
I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Kermit C. Koehler
Signature of Authorized Representative
Kermit C. Koehler, Tool Pusher
Name of Person and Title (type or print)
Southland Drilling Company
Name of Company
Telephone: 512 (Area Code) 826-3238

OPERATOR CERTIFICATION
I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

E. R. Raines
Signature of Authorized Representative
E. R. Raines, Drilling Technician
Name of Person and Title (type or print)
Humble Oil & Refining Company
Operator
Telephone: 512 (Area Code) 884-4571

DEC 12 1972

Railroad Commission Use Only:

Approved By: Susan James Title: Steno I Date: 12-12-72

* Designates items certified by company that conducted the inclination surveys.

2-04893

BEE DIST. 2
API NO. 42 025 30174

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

PLEASE TYPE OR PRINT

FORM W-1
*(3-1-70)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify) _____

1. Operator: Humble Oil & Refining Company
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78401
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] NO [ ]
4. Lease Name: Laura D. Thomson "B"
5. Location (Sec., Blk., Survey): Garrett Roach (A-59)
6. This well is to be located 9.7 miles Northeast Direction from Skidmore, Texas Nearest Post Office or Town.
7. RRC District: Two
8. County: Bee
9. Well Number: 10
10. Number of Acres in Lease: 10,500
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): Over 467

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (if applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells, if no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern (Acres, if no pattern indicate Statewide Rule 30)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat Above 5000'	5000	--	467 1200	40	40	No	--	Yes	Oil	--	--

RECEIVED
R.R.C. OF TEXAS
OCT 30 1972
AUS. N. TEXAS

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Article 6033c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

Signature: Grady Coyle
Grady Coyle
Title: Proration Specialist
Date: October 26, 1972
Telephone: Area Code 512 884-4571

REMARKS: _____

RECEIVED
R.R.C. OF TEXAS
OCT 27 1972
O.G.
SAN ANTONIO, TEXAS

5300' S-SE of Media Circle Fed

-OVER-

C 0 2 4 2 1 3 5

1 of 1 025 30174

(43)

C C 2 2 1 3 1328

TEXAS WATER DEVELOPMENT BOARD

MEMBERS
W. E. TINSLEY, CHAIRMAN
AUSTIN
MARVIN SHURBET VICE CHAIRMAN
PETERSBURG
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CARL ILLIG
HOUSTON

HARRY P. BURLEIGH
EXECUTIVE DIRECTOR

P O BOX 13087
CAPITOL STATION
AUSTIN, TEXAS 78711

AREA CODE 512
475-2201

301 WEST 2ND STREET

October 27, 1972

2

Humble Oil & Refining Company
Wilson Tower
Corpus Christi, Texas . 78401

IN REPLY REFER TO
TWDBE-WD
1328

Re: Laura D. Thomson, Well #8-10,
Garrett Roach Survey, A-59
Bee County, Texas

Gentlemen:

Reference is made to your inquiry of October 26, 1972 regarding the protection of usable-quality water strata in your above named well.

Water-bearing strata must be protected down to a depth of 1400 feet.

Please send an electrical log of this well when it is available.

NOTE: The depth to which we recommend that usable-quality water strata should be protected is intended to apply only to the subject well. Approval of the well-completion methods for protection of this ground water falls under the jurisdiction of the Railroad Commission of Texas. This recommendation is intended for normal drilling and production operations only and does not apply to salt water disposal operations. It should not be used as a recommendation for fieldwide usable-quality water protection rules.

Very truly yours,

N. A. Jeter
Geologist, Surface Casing Section

cc: RRC, Austin
RRC, Dist. Office #2

TWDBE-WD 17

MAP ID #44

API# 42-025-32634
GAS WELL
PLUGGED

(44)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42-025-32634 (if available)

1. RRC District: 2

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 141223

2. FIELD NAME (as per RRC Records): BURKES RIDGE (1600)

3. Lease Name: THOMSON, LAURA "B"

5. Well Number: 24

6. OPERATOR: MUELLER ENGINEERING CORP.

6a. Original Form W-1 Filed in Name of: Mueller Engineering Corp.

10. County: Bee

7. ADDRESS: 1010 First City Tower II, CORPUS CHRISTI, TX 78478

6b. Any Subsequent W-1's Filed in Name of: —

11. Date Drilling Permit Issued: 4-13-92

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 11720 Feet From West Line and 5200 Feet From Southeast Line of the Thomson Lease

12. Permit Number: 398206

9a. SECTION, BLOCK, AND SURVEY: G. ROACHE A-59

9b. Distance and Direction From Nearest Town in this County: 10.7 MI NE FROM SKIDMORE

13. Date Drilling Commenced: 2-20-92

16. Type Well (Oil, Gas, Dry): GAS

Total Depth: 3000

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil-O Gas-G	WELL #

14. Date Drilling Completed: 2-20-92

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 3/18/93

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	3/18/93							
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8"							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2996							
*22. Sacks of Cement Used (each plug)	50							
*23. Slurry Volume Pumped (cu. ft.)	59							
*24. Calculated Top of Plug (ft.)	3							
25. Measured Top of Plug (if tagged) (ft.)	—							
*26. Slurry Wt. #/Gal.	15.6							
*27. Type Cement	H							

RECORD CORRECTION
JUN 17 1993

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8"	24	308	305	12 1/4"
2 7/8"	6.5	2996	2993	7 7/8"

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

—

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 2725	TO 2727		FROM	TO	
FROM 2034	TO 2035		FROM	TO	
FROM 1623	TO 1625		FROM	TO	
FROM 1566	TO 1569	(OH)	FROM	TO	
FROM 1577	TO 1579	(OH)	FROM	TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

C.G.C. WELL SALVAGING, INC.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY | Staff Engineer (TITLE) | 3-25-93 (DATE) | Phone (512)883-1911 (A/C NUMBER)

RECEIVED
R.R.C. OF TEXAS
MAR 26 1993
SAN ANTONIO, TX

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

plug back

025-32634

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — ☐ Yes ☒ No

32. How was Mud Applied?

33. Mud Weight ____ LBS/GAL

34. Total Depth 3000

Depth of Deepest Fresh Water 1300

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? ☒ Yes ☐ No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
C.G.C. WELL SALVAGING, INC. P. O. Box 4609, Corpus Christi, TX 78469

Date RRC District Office notified of plugging 3/18/93

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases
Mr. Thomas D. Barrow, 4605 Post Oak Place, Suite 207, Houston, Texas 77027-9728
Exxon Company, USA, P. O. Box 2180, Houston, Texas 77252

39. Was Notice Given Before Plugging to Each of the Above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging N/A bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Tbg Press Test to 1000 PSI, OK. With Fesco Plug @ 1530

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

RECEIVED
R.R.C. - O&G
MAR 11 1992
AUSTIN, TEXAS

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No 42- 025 326 34

7 RRC District No. 2

8. RRC Gas ID No. ~~140229~~ 141223

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): BURKES RIDGE (1600)

2. LEASE NAME: LAURA THOMSON "B"

9. Well No.: 24

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP.

RRC Operator No: 592645

RECEIVED RRC OF TEXAS MAR 13 1992 UG SAN ANTONIO, TX

10. County of well site: BEE

4. ADDRESS: 1010 FIRST CITY TOWER II, CORPUS CHRISTI, TX 78478

Purpose of filing:
- Initial Potential ☐
- Retest ☐
- Reclass ☒
- Well record only (Explain in remarks) ☐

5. Location (Section, Block, and Survey): G. ROACHE A-59

5b Distance and direction to nearest town in this county: 10.70 MI. NE FROM SKIDMORE

6. If operator has changed within last 60 days, name former operator: N/A

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
BURKES RIDGE (2040)	140229	G	24

13. Pipe Line Connection: TRUNKLINE #80177

14. Completion or recompletion date: 3-1-92

15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☒ No

16. Type of Electric or other Log Run: DUAL IND

Section I — GAS MEASUREMENT DATA

Date of Test: 3-6-92

Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ | Positive Choke ☒ | Orifice Vent Meter ☐ | Pitot Tube ☐ | Critical-flow Prover ☐

Gas produced during test: 556 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2"	8/64"	.347	495		60°	1.0	1.0445	1.033	185.33
2										
3										
4										

RECOMPLETION JUN 30 1992

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.55	– Deg. API	CF/Bbl	G_{mix} =	70 °F	100 °F @ 1625 (Depth)

$D_{eff}^{8/3} = 10.806$

$\sqrt{T_f} = \sqrt{520} = 22.80$

$\sqrt{GL} = \sqrt{.55(1625)} = 29.89$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{1118\ (10.806)}{\sqrt{520}} = 529.79$

$\frac{\sqrt{GL}}{C} = \frac{29.89}{529.79} = .0564$

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			560						
1	4320	8/64"	495	60°	245.03	9.98	.0996	495.10	.999
2									
3									
4									

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)	Angle of Slope
Shut—In	560	.0313	1.0774	1.034	579.04	335.28	–	θ 45°
1		.0313	1.0671	1.0336	495.23	245.25	90.03	n 1.0°
2								
3								Absolute Open Flow
4								645 MCF/DAY

WELL TESTER'S CERTIFICATION. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester — MUELLER ENGINEERING CORP. (Name of Company) — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature. Operator's representative — STAFF ENGINEER (Title) — 3-6-92 (Date) — Tel: 512-883-1911 A/C Number

025-32634

PRODUCTION ALLOCATION

APR 29 1992 11:

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

398206

17. Type of Completion: New Well [ ] Deepening [ ] Plug Back [ ] Other [X]

18. Permit to Drill, Plug Back or Deepen — DATE 10-25 — PERMIT NO. ~~393076~~

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
MUELLER ENGINEERING CORP.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 2203

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 2-20-92 Completed 2-20-92

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 11720 Feet From WEST Line and 5200 Feet from SE Line of the THOMSON Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 129.9

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: 1620

28. Total Depth: 3000

29. P. B. Depth: N/A

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. [X] Railroad Commission (Special) [ ] Dt. of Letter 11-18-91

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X Cable Tools

34. Name of Drilling Contractor: C. C. DRILLING

35. Is Cementing Affidavit Attached? [ ] Yes [X] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24.0	308'		180 SKS	12 1/4"	SURF.	225
				STANDARD + 2% CALL2			
2 7/8"	6.5	2996'		LEAD - 220 SKS	7 7/8"	SURF.	539
				TAIL - 550 SKS		1400	635

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1623	To	1625
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
HEARD RANCH	2900'		
BURKES RIDGE	1500'		

REMARKS CIBP @ 2520' WITH 20' OF CEMENT ON TOP (PERFS 2727'-2727')
CIBP @ 1900' WITH 20' OF CEMENT ON TOP (PERFS 2034'-2035')

▶ Return each W-1 with plat, applicable fee, and "W-1 Compliance Certificate" (W-1c). Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev. 9/1/91

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- 025 32634 ▶ Permit No. 398206 ▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP.
3. RRC Operator No.: 592645
4. RRC District No.: 02
5. County of Well Site: BEE

2. Address (including city and zip code):
1010 FIRST CITY TOWER II
CORPUS CHRISTI, TX 78478
OK 4/8/92
989845

6. Lease Name (32 spaces maximum): LAURA THOMSON "B"
7. RRC Lease/ID No.: 02907
8. Well No.: 24
9. Total Depth: 2000'

10. Location
• Section _____ Block _____ Survey G. ROACHE Abstract No. A-59
• This well is to be located 10.7 miles in a NE direction from SKIDMORE which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 2425' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 2203 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
WILDCAT 4001	ABOVE 2000'	467/1200'	40	40	NO	N/A	GAS	1	1
BURKES RIDGE (1600) 13551600	1604'	467/1200'	40	40	NO	N/A	GAS	0	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 11720' ~~FULL~~ FWL AND 5200' FSEL
• Survey/Section 14600' ~~FNEL~~ AND 1390' FSEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

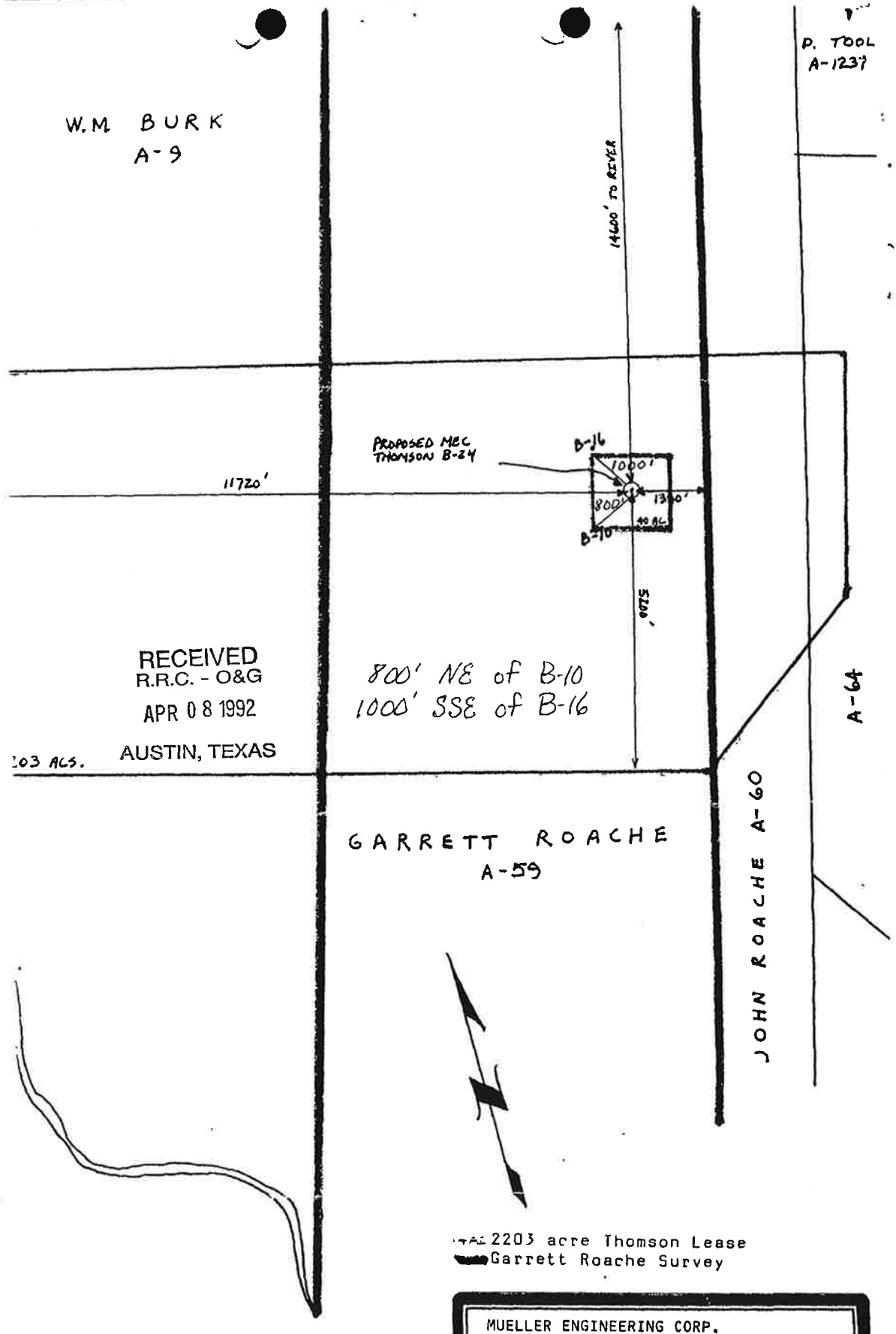
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

Remarks
WC 4/13/92

I certify that information stated in this application is true and complete, to the best of my knowledge.
James A. Bookout
Signature
JEFF BOOKOUT, P.E., STAFF ENGINEER
Name and title of operator's representative
4-3-92
Date: mo. day yr.
(512) 883-1911
Tel.: Area Code Number

• RRC Use Only •
100 APP
210580 APR 08 92
398206

MAPPING 025-32634



THIS PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

James J. Bookout

JEFF BOOKOUT, P.E.
STAFF ENGINEER

MUELLER ENGINEERING CORP.
Laura Thomson "B", No. 24
Laura Thomson "B", Bee County, Texas
11720' FWL x 5200' FSEL of lease
14600' FNEL x 1390' FSEL of
Garrett Roache, A-59 Survey

1" = 2000'

1355/850

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42- 025 32634

7. RRC District No. 02

8 RRC Gas ID No 140229

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

RECEIVED R.R.C. OF TEXAS DEC 16 1991 O.G. SAN ANTONIO, TX

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (2040)

2. LEASE NAME: Thomson, Laura "B"

9. Well No: 24

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP.

RRC Operator No. 592645

10 County of well site: Bee

4. ADDRESS: 1010 First City Tower II, Corpus Christi, Texas 78478

11. Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): G. Roache Survey, A-59

5b. Distance and direction to nearest town in this county.: 10.7 mi. NE from Skidmore

6. If operator has changed within last 60 days, name former operator: N/A

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
		G	24

13. Pipe Line Connection: Trunkline Sta. #80177

14. Completion or recompletion date: 11-22-91

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16 Type of Electric or other Log Run.: Dual Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 12/6/91

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 550 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2"	7/64"	.261	660		60°	1.0	1.0	1.049	181
2										
3										
4										

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.56	N/A Deg. API	Dry CF/Bbl	G_{mix} = .56	70 °F	105 °F @ 2035' (Depth)

$D_{eff}^{8/3} = 10.806$

$\sqrt{T_f} = \sqrt{520} = 22.8035$

$\sqrt{GL} = \sqrt{.56(2035)} = 33.758$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{1118 + 10.806}{22.8035} = 529.78$

$\frac{\sqrt{GL}}{C} = \frac{33.758}{529.78} = .063721$

RECORD CODIFICATION FEB 13 1992

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In									
1	4320	7/64"	660	60°	43.56	11.53	.1329	660.10	.99984
2									
3									
4									

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In	730	.0393	1.1067	1.04445	762.448	581	
1		.0393	1.10040	1.04419	689.16	474.9	106.10
2							
3							
4							

Angle of Slope
θ ..45°.....
n ..1.0.....
Absolute Open Flow
..810..... MCF/DAY

WELL TESTER'S CERTIFICATION I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature Well Tester — Mueller Eng. Corp. — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Signature: Operator's representative — Jeff Bookout, P.E., Staff Engineer — Title — 12-9-91 Date — Tel: (512) 883-1911 A/C Number

025-32634

VALID PERMIT
PRODUCTION ALLOCATION
DEC 23 1991

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 10-25-91 — PERMIT NO. 393076
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
MUELLER ENGINEERING CORP.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 2203

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 11-10-91 Completed 11-13-91

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 11720 Feet From West Line and 5200 Feet from SE Line of the Thomson Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 129.9

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay: 2033'

28. Total Depth: 3000'

29. P. B. Depth: N/a

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] Dt. of Letter 11-18-91 Dt. of Letter

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X Cable Tools

34. Name of Drilling Contractor: C.C. Drilling

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8-5/8"	24.0	308'	--	180 sks Standard +2%CACL2	12-1/4"	Surface	225
2-7/8"	6.5	2996'	--	Lead - 220 sks	7-7/8"	Surface	539
				Tail - 550 sks.	7-7/8"	1400	635

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	2033	To	2034
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Heard Ranch	2900'		
Burkes Ridge	1500'		

REMARKS: CIBP set @ 2520' with 20' of cement on top.
Perforations at 2725'-2727'

Cementer: Fill in shaded areas.
Operator: Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
MUELLER ENGINEERING CORP.	592645	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6. API No**	**7 Drilling Permit No.**
BURKES RIDGE (2040)		**42-** 025 32634	393076
8 Lease Name	**9. Rule 37 Case No**	**10. Oil Lease/Gas ID No**	**11. Well No.**
Thomson, Laura "B"		140229	24

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		11/10/91					
13. •Drilled hole size		12-1/4"					
•Est % wash or hole enlargement		50%					
14 Size of casing (in O.D.)		8 5/8"					
15. Top of liner (ft.)		--					
16 Setting depth (ft.)		308'					
17. Number of centralizers used		4					
18 Hrs. waiting on cement before drill-out		6					
1st Slurry	19. API cement used: No. of sacks ▶	180					
	Class ▶	Standard					
	Additives ▶	2% CaCl					
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	225					
	Height (ft.) ▶	545					
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	225					
	Height (ft.) ▶	545					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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SAN ANTONIO, TX

22 Remarks Corpus Christi Drilling
Thompson B24
Refugio County, Tx
Tk# 167392

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

J. W. Barefield Asst. Dist. Mgr. — Name and title of cementer's representative

Halliburton Services — Cementing Company

J.W. Barefield — Signature

RR 6 Box 452, Victoria, Tx 77901 — Address, City, State, Zip Code

1/800/448-0645 — Tel.: Area Code Number

November 13, 1991 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Jeff Bookout, P.E. — Typed or printed name of operator's representative

Staff Engineer — Title

James J Bookout — Signature

1010 First City Tower II, Corpus Christi, TX. 78478 — Address, City, State, Zip Code

(512) 883-1911 — Tel.: Area Code Number

12-10-91 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Mueller Engineering Corp.	592645	02	Bee

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
BURKES RIDGE (2040)	42- 025 32634	393076

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
Thompson, Laura "B"		140229	B-24

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				11-13-91			
13. •Drilled hole size				7-7/8"			
•Est. % wash or hole enlargement				50%			
14. Size of casing (in. O.D.)				2-7/8"			
15. Top of liner (ft.)				--			
16. Setting depth (ft.)				2996'			
17. Number of centralizers used				18			
18. Hrs. Waiting on cement before drill-out				N/A			
1st Slurry	19. API cement used: No. of sacks ▶			220			
	Class ▶			Pacesetter Lite II			
	Additives ▶			8% Gel + 5% Salt			
2nd Slurry	No. of sacks ▶			535			
	Class ▶			H			
	Additives ▶			3% KCL + .29% CF-14 + .2% CF-2 + .2% Thrifty Lite			
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶			541.2			
	Height (ft.) ▶			1764.48			
2nd	Volume (cu. ft.) ▶			636.65			
	Height (ft.) ▶			2171.68			
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			1177.85			
	Height (ft.) ▶			3936.16			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

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SAN ANTONIO, TX

22. Remarks

WCNA 1070

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

RAUL RODRIGUEZ/Service Supervisor — The Western Company — Raul Rodriguez
Name and title of cementer's representative | Cementing Company | Signature

P. O. Box 1730, Alice, TX 78333 — (512) 664-2607 — 11-13-91
Address, City, State, Zip Code | Tel.: Area Code Number | Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Jeff Bookout, P.E. — Staff Engineer — James J Bookout
Typed or printed name of operator's representative | Title | Signature

1010 First City Tower II, Corpus Christi, TX. 78478 — (512) 883-1911 — 12-10-91
Address, City, State, Zip Code | Tel.: Area Code Number | Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Return each W-1 with plat, applicable fee, and "W-1 Compliance Certificate" (W-1c). Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

25

Form W-1
Rev. 9/1/91

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32634 Permit No. 393076

Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP.
3. RRC Operator No.: 592645
4. RRC District No.: 02
5. County of Well Site: BEE

2. Address (including city and zip code): 1010 First City Tower II, Corpus Christi, Texas 78478
989845

6. Lease Name (32 spaces maximum): LAURA THOMSON "B"
7. RRC Lease/ID No.: 02907
8. Well No.: 24
9. Total Depth: 3000'

10. Location
• Section _____ Block _____ Survey G. Roache Abstract No. A- 59
• This well is to be located 10.7 miles in a NE direction from Skidmore which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 2425' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 2203 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Burkes Ridge (Greta) 13551120	2754'	467'/1200'	40	40	NO	N/A	GAS	0	1
Burkes Ridge (1600) 13551600	1604'	467'/1200'	40	40	NO	N/A	GAS	0	1
Burkes Ridge (1850) 13551700	1832'	467'/1200'	40	40	NO	N/A	GAS	0	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 11720' FWL and 5200' FSEL
• Survey/Section 14600' FNEL and 1390' FSEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit Cont.
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks

Page 1 of 7

I certify that information stated in this application is true and complete, to the best of my knowledge.

James J. Bookout
Signature

Jeff Bookout, P.E., Staff Engineer
Name and title of operator's representative

10/15/91
Date: mo. day yr.

(512) 883-1911
Tel.: Area Code Number

120 20248 OCT 21 91 • RRC Use Only •

393076

025-32634

MAPPING

▶ Return each W-1 with plat, applicable fee, and "W-1 Compliance Certificate" (W-1c). Make a check or money order payable to the State Treasurer of Texas

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev. 9/1/91

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- ; Permit No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP.
3. RRC Operator No.: 592645
4. RRC District No.: 02
5. County of Well Site: BEE
▶ Rule 37 Case No.

2. Address (including city and zip code): 1010 First City Tower II, Corpus Christi, TX. 78478

6. Lease Name (32 spaces maximum): LAURA THOMSON "B"
7. RRC Lease/ID No.: 02907
8. Well No.: 24
9. Total Depth: 3000'

10. Location
• Section _____ Block _____ Survey G.ROACHE Abstract No. A-59
• This well is to be located 10.7 miles in a NE direction from Skidmore
which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 2425' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 2203 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Burkes Ridge (1900) 3551800	1914'	467'/1200'	40	40	NO	N/A	GAS	0	1
Burkes Ridge (2040) 3551850	2035'	467'/1200'	40	40	NO	N/A	GAS	0	1
Burkes Ridge, East (Greta) 3554500	2216'	467'/1200'	40	40	NO	N/A	GAS	0	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit _____
• Survey/Section _____

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____ cont.

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [ ]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [ ]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [ ] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [ ] No [ ]

Remarks
Page 2 of 7

I certify that information stated in this application is true and complete, to the best of my knowledge.

Jeff Bookout, P.E., Staff Engineer
Signature — Name and title of operator's representative

10/15/91 — Date: mo. day yr.
(512) 883-1911 — Tel.: Area Code Number

• RRC Use Only •
20248 | OCT 21 91

MAPPED

▶ Return each W-1 with plat, applicable fee, and "W-1 Compliance Certificate" (W-1c). Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

Col 13
Vicky

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev. 9/1/91

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- ; Permit No. ; Rule 37 Case No.

1 Operator's Name (exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP.
3. RRC Operator No.: 592645
4. RRC District No.: 02
5. County of Well Site: BEE

2. Address (including city and zip code): 1010 First City Tower II, Corpus Christi, Texas 78478

6. Lease Name (32 spaces maximum): LAURA THOMSON "B"
7. RRC Lease/ID No.: 02907
8. Well No.: 24
9. Total Depth: 3000'

10. Location
• Section ____ Block ____ Survey G.ROACHE Abstract No. A-59
• This well is to be located 10.7 miles in a NE direction from Skidmore
which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 2425' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 2203 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
13555700 Burkes Ridge, East (2100) SD	2073'	467'/1200'	40	40	NO	N/A	GAS	0	1
Heard Ranch (2900) 4003264	2938'	330/933 ~~467'/1200'~~	40	40	NO	N/A	GAS	0	1
Wildcat 4001	Above 3000'	467'/1200'	40	40	NO	N/A	GAS	1	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit ____
• Survey/Section ____

If a directional well, show also projected bottom-hole location:
• Lease/Unit ____
• Survey/Section ____ Cont

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Remarks

Page 3 of 7

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Signature: ____ Name and title of operator's representative: Jeff Bookout, P.E., Staff Engineer

Date: 10/15/91 (mo. day yr.) Tel.: (512) 883-1911 (Area Code Number)

• RRC Use Only •

202481 OCT 2191

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P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

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3. RRC Operator No.: 592645
4. RRC District No.: 02
5. County of Well Site: Bee
▶ Rule 37 Case No.

2. Address (including city and zip code): 1010 First City Tower II, Corpus Christi, TX. 78478

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Burkhollow (2600 sand) 13600500	2574'	467'/1200'	40	40	NO	N/A	GAS	0	1
Burkhollow, W. (1900) 13606500	1887'	467'/1200'	40	40	NO	N/A	GAS	0	1
Blanconia (2900) 08794320	2899'	467'/1200'	40	40	NO	N/A	GAS	0	1

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit _____
- Survey/Section _____

If a directional well, show also projected bottom-hole location:
- Lease/Unit _____
- Survey/Section _____ Cont

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Remarks

Page 4 of 7

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Signature

Jeff Bookout, P.E., Staff Engineer
Name and title of operator's representative

10/15/91
Date: mo. day yr.

(512) 883-1911
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20248101 0C 2191

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Blanconia (2850) 08794304	2850'	467'/1200'	40	40	NO	N/A	GAS	0	1
Blanconia (2810) 08794266	2810'	467'/1200'	40	40	NO	N/A	GAS	0	1
Blanconia (2750) 08 794350	2736'	467'/1200'	40	40	NO	N/A	GAS	0	1

22. Perpendicular surface location from two nearest designated lines:
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• Survey/Section ____

If a directional well, show also projected bottom-hole location:
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Remarks

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Signature — Name and title of operator's representative

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202481 OCT 2191

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Blanconia (Bunch Sand) 08794010	2840'	467'/1200'	40	40	NO	N/A	GAS	0	1
Beeville, North (2660) 06787750	2664'	467'/1200'	40	40	NO	N/A	GAS	0	1
Beeville, North (2700) 06787775	2700'	467'/1200'	40	40	NO	N/A	GAS	0	1

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Medio Creek, East (2900) 6020050	2887'	467'/1200'	40	40	NO	N/A	GAS	0	1

22. Perpendicular surface location from two nearest designated lines:
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• Survey/Section ____

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• Lease/Unit ____
• Survey/Section ____

23. Is this a pooled unit?
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24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
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Signature — Name and title of operator's representative

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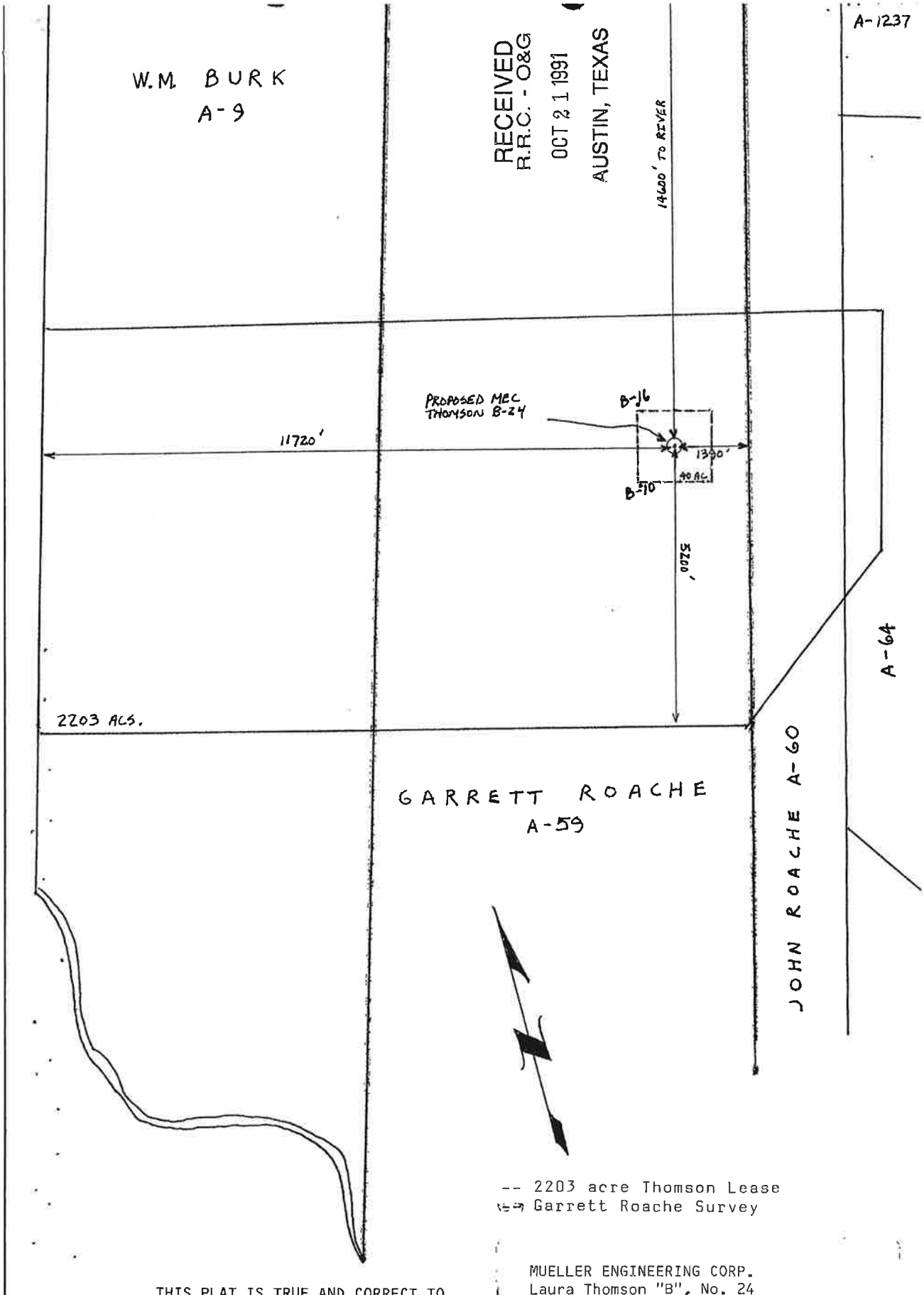


-- 2203 acre Thomson Lease
-- Garrett Roache Survey

THIS PLAT IS TRUE AND CORRECT TO
THE BEST OF MY KNOWLEDGE.

James G. Bookout

JEFF BOOKOUT, P.E.
STAFF ENGINEER

MUELLER ENGINEERING CORP.
Laura Thomson "B", No. 24
Laura Thomson "B", Bee County, Texas
11720' FWL x 5200' FSEL of lease
14600' FNEL x 1390' FSEL of
Garrett Roache, A-59 Survey

1" = 2000'

MAP ID #45

API# 42-025-30188
OIL WELL
PLUGGED

30188 (45)

0 3 0 0 5 2 0 2 2 4 6

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Plugging Record

Form W-3
Rev 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or ID Number: 04893

2 FIELD NAME (as per RRC Records): BURKES RIDGE (VKSBC 4800)

3 LEASE NAME: LAURA D. THOMSON 'B'

5 Well Number: 12

6 OPERATOR: EXXON CORPORATION

10 County: BEE

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 12-27-72

8 SURFACE LOCATION: 600 FEET FROM W OF E LINE, AND 17500 FEET FROM N OF S LINE

12 Date Drilling Commenced: 12-28-72

9 SECTION, BLOCK, AND SURVEY: GARRETT ROACHE (A-59)

13 Date Drilling Completed: 1-3-73

15 Type of Well (Oil, Gas, Dry)*: OIL

16 Type of Completion (Single, Dual, Etc.): SINGLE

17 Total Depth: 5144

14 Date Well Plugged: 1-27-75

18 FORM W-1 (Intention to Drill) Filed in Name of: EXXON CORPORATION

19 Manner of Placement

PLUG #1	25	SACKS	TOP	4717	BOTTOM	4835	TYPE CLASS H
PLUG #2	45	SACKS	TOP	1442	BOTTOM	1590	TYPE CLASS H
PLUG #3	15	SACKS	TOP	1442	BOTTOM	1590	TYPE CLASS H
PLUG #4	20	SACKS	TOP	10	BOTTOM	60	TYPE CLASS H

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21 How was Mud applied? POWER PUMP

22 Mud Weight: 9.8 LBS/GAL

23 Depth of Deepest Fresh Water: 1400 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25 If NO, Explain

26 Name and Address of Party Plugging Well: FISH OIL WELL SERVICING COMPANY, BOX 1057, BEEVILLE, TEXAS 78102

27 Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	1542.00		1538.50	
5½"	5132.00		5128.50	
2 7/8"	4707.00		NONE	

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

NONE

B

29 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle — GRADY COYLE — REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST — TITLE

3-19-75 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R.R.C. OF TEXAS
MAR 21 1975
OG
SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

Cancel 14(B)(2) Exception

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS 8¾" & 5½" CASING CUT OFF 3½' BELOW GROUND & CAPPED.

EXXON CORPORATION

MAR 21 1975

0 0 0 3 5 2 0 2 2 4 7

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-60)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) BURKES RIDGE (VK5&L 4800)	*5. RRC District 2
*2. Operator EXXON CORPORATION	*4. County BEE
*3. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA D. THOMSON 'B' 04893	*6. Well Number 12
*7. Location (Section, Block, and Survey) GARRETT ROACHE (A-59)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry		EXXON CORPORATION				
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	1-23-75	1-23-75	1-23-75		1-27-75	
*20. Size of Hole or Pipe in which Plug Placed (inches)	5½" csg	5½" csg	5½x8 5/8	annulus	5½ + 8 5/8	
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4835	1590	1590		60	
22. Sacks of Cement Used (each plug)	25	45	15		20	
23. Slurry Volume Pumped (cu. ft.)	29.5	53.1	17.7		23.6	
24. Calculated Top of Plug (ft.)	4717'	1442'	1442'		10	
*25. Measured Top of Plug (if tagged) (ft.)	Tst. to 500#					

RECEIVED
R.R.C. OF TEXAS
MAR 21 1975
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

26. Remarks:	*27. Remarks:
	MAR 5 1975

CEMENTING COMPANY	*OPERATOR
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report were performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.	I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.
H. E. Fish	Billy L. Webb
Signature of Cementer or Authorized Representative	*Signature of Operator or Authorized Representative
H. E. Fish, President	BILLY L. WEBB - FIELD SUPERINTENDENT
Name of Person and Title (type or print)	*Name of Person and Title (type or print)
Fish Oil Well Servicing Company	EXXON CORPORATION
Cementing Company	*Operator
P. O. Box 1057	Rt. 1 Box 247
Street Address or P.O. Box	*Street Address or P.O. Box
Beeville, Texas 78102	Refugio, Texas 78377
City, State Zip Code	*City, State Zip Code
Telephone 512 358-2505	*Telephone 512 526-2354
Area Code	Area Code
1-31-75	2-5-75
Date	*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an Initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest).**

24. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

25. Date Permit Issued: 12-27-72

26. Notice of Intention to Drill this Well was filed in Name of: Humble Oil & Refining Company

27. If Special Permit, Give Permit Number:

28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 2

29. Total Number of Acres in this Lease: 10,500

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 12-28-72 Completed 1-3-73

31. Distance to Nearest Well, Same Lease & Reservoir: 1320

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 600 Feet From W of E Line And 17,500 Feet From N of S Line of The Laura D. Thomson "B" Lease

33. Elevation (DF, RKB, RT, GR, ETC): 128 GR

34. Was Directional Survey Made: Yes [X] No [ ]

35. Top of Pay: 4820

36. Total Depth: 5144

37. P.B. Depth:

38. Surface Casing Determined By: Recommendation of Texas Water Development Board [ ] Field Rules [X] Railroad Commission (Special) [ ]

39. Is Well Multiple Completion? Yes [ ] No [X]

40. If Multiple Completion List All Reservoir Names (Completions in this Well)

41. Intervals Drilled By: Rotary Tools X Cable Tools

42. Name of Drilling Contractor: Flournoy Drilling Company

43. Is Cementing Affidavit Attached? Yes [X] No [ ]

44. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
8-5/8	24#	1542	11	490 sacks	
5-1/2	23#;20#;10#;14#	5132	7-7/8	240 sacks	

45. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen
		--		

46. **TUBING RECORD**

Size	Depth Set	Packer Set
2-7/8	4707'	4707'

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From	4820	To	4823
From		To	
From		To	
From		To	

48. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used

49. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth
Clay & SD	0 - 380		
SD & SH	380 - 3828		
SH	3828 - 4130		
SD & SH	4130 - 5020		
SD	5020 - 5144 TD		

REMARKS

0 0 2 4 2 1

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-27-69)

CEMENTING REPORT
(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat): Burkes Ridge (VKSBG 4800)	*2. RRC District: 2
*3. Operator: Exxon Corporation	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Laura D. Thomson "B"	*6. Well Number: 12
*7. Location (Section, Block, and Survey): Garrett Roache (A-59)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	12/29					
*9. (a) Size of Drill Bit (inches)	11					
(b) Estimated % Wash or Hole Enlargement Used in Calculations.	100%					
*10. Size of Casing (inches O.D.)	8-5/8					
*11. Top of Liner (if liner used) (ft.)	--					
*12. Setting Depth of Casing (ft.)	1542.46					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	A+12%Gel					
(b) In Second Slurry	A+2%$CaCl_2$					
(c) In Third Slurry	A+3%$CaCl_2$					
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	300					
(b) In Second Slurry	150					
(c) In Third Slurry	40					
(d) Total Sacks of Cement Used	490					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.210					
(b) In Second Slurry	1.18					
(c) In Third Slurry	1.18					
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	663					
(b) In Second Slurry	177					
(c) In Third Slurry	47					
(d) Total Slurry Volume Pumped (cu.ft.)	887					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	1542					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. C. OF TEXAS
FEB 07 1973
SAN ANTONIO, TEXAS

2-0483

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks: Fill Vol. 3486 ft.
Lead slurry Class A + 12% Gel
Tail Slurry Class A + 2% $CaCl_2$
Top Out Class A + 3% $CaCl_2$

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

C E Browning
Signature of Cementer or Authorized Representative

A.E. Browning, Service Supervisor
Name of Person and Title (type or print)

The Western Company
Cementing Company

Box 1186
Street Address or P.O. Box

Robstown, Texas
City, State Zip Code

Telephone Area Code 387-1523

December 29, 1972
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

E R Raines
*Signature of Operator or Authorized Representative

E. R. Raines, Eng./Tech.
*Name of Person and Title (type or print)

Exxon Corporation
*Operator

Wilson Tower
*Street Address or P.O. Box

Corpus Christi, Texas 78401
*City, State Zip Code

*Telephone Area Code 512 884-4571

February 5, 1973
*Date

- INSTRUCTIONS -

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

0 0 2 4 2 1 3 6

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-27-69)

CEMENTING REPORT

(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) Burkes Ridge (VKSBG 4800)	*2. RRC District 2
*3. Operator Exxon Corporation	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Laura D. Thomson "B"	*6. Well Number 12
*7. Location (Section, Block, and Survey) Garrett Roache (A-59)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date			1-5-73			
*9. (a) Size of Drill Bit (inches)			7-7/8			
(b) Estimated % Wash or Hole Enlargement Used in Calculations.			10%			
*10. Size of Casing (inches O.D.)			5-1/2			
*11. Top of Liner (if liner used) (ft.)			--			
*12. Setting Depth of Casing (ft.)			5131			
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)			Remarks			
(b) In Second Slurry			Remarks			
(c) In Third Slurry			--			
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry			155			
(b) In Second Slurry			85			
(c) In Third Slurry			--			
(d) Total Sacks of Cement Used			240			
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry			1.81			
(b) In Second Slurry			1.37			
(c) In Third Slurry			--			
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry			279			
(b) In Second Slurry			116			
(c) In Third Slurry			--			
(d) Total Slurry Volume Pumped (cu.ft.)			395			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)			2280			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)			No			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. C. OF TEXAS
FEB 07 1973

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designation items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

2-68896

26. Remarks:

Lead slurry: 155 sx TLW + 3% Salt + 0.75% TF-4 + 0.1% AF-2

Tail 1-1 Talc "H" + 10% Salt

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

A. E. Browning

Signature of Cementer or Authorized Representative

A. E. Browning, Service Supervisor

Name of Person and Title (type or print)

The Western Company

Cementing Company

Box 1181

Street Address or P.O. Box

Robstown, Texas

City, State Zip Code

Telephone 512 387-1523

Area Code

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

E. R. Raines

*Signature of Operator or Authorized Representative

E. R. Raines, Eng./Tech.

*Name of Person and Title (type or print)

Exxon Corporation

*Operator

Wilson Tower

*Street Address or P.O. Box

Corpus Christi, Texas 78401

*City, State Zip Code

*Telephone 512 884-4571

Area Code

February 5, 1973

*Date

- INSTRUCTIONS -

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 5, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

0 0 2 4 2 1 3

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

6. RRC District: 2

7. RRC Lease Number (Oil completions only):

8. Well Number: 12

9. RRC Identification Number (Gas completions only):

10. County: Bee

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (VKSBG 4800)

2. LEASE NAME: Laura D. Thomson "B"

3. OPERATOR: Exxon Corporation

4. ADDRESS: Wilson Tower, Corpus Christi, Texas 78401

5. LOCATION (Section, Block, and Survey): Garrett Roache (A-59)

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
492	492	1/2	.0087	~~4.58~~ 4.28	4.58
988	496	3/4	.0131	6.50	11.08
1560	572	1-1/4	.0218	12.47	23.55
2476	916	1	.0175	16.03	39.58
3455	979	1	.0175	17.13	56.71
3828	373	1/2	.0087	3.25	59.96
4800	972	1-3/4	.0305	29.65	89.61
5144	344	1	.0175	6.02	95.63

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 5144 feet = 95.63 feet.

*19. Inclination measurements were made in — ☐ Tubing ☐ Casing ☒ Open hole ☐ Drill Pipe

20. Distance from surface location of well to the nearest lease line 600 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Gene Terrell
Signature of Authorized Representative

Gene Terrell, Pusher
Name of Person and Title (type or print)

Flournoy Drilling Company
Name of Company

Telephone: 512 (Area Code) 664-5471

OPERATOR CERTIFICATION

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

E R Raines
Signature of Authorized Representative

E. R. Raines, Eng./Tech.
Name of Person and Title (type or print)

Exxon Corporation
Operator

Telephone: 512 (Area Code) 884-4571

RECEIVED
R. R. C. OF TEXAS
FEB 07 1973
SAN ANTONIO, TEXAS

2-04893

Railroad Commission Use Only:

Approved By: Susan James Title: Steno I Date: 1-7-73

* Designates items certified by company that conducted the inclination surveys.

TEXAS WATER DEVELOPMENT BOARD

1342

MEMBERS
W. E. TINSLEY, CHAIRMAN
AUSTIN
MARVIN SHURBET, VICE CHAIRMAN
PETERSBURG
ROBERT B. GILMORE
DALLAS
JOHN H. McCOY
NEW BOSTON
MILTON T. POTTS
LIVINGSTON
CARL ILLIG
HOUSTON

HARRY P. BURLEIGH
EXECUTIVE DIRECTOR

P.O. BOX 13087
CAPITOL STATION
AUSTIN, TEXAS 78711

AREA CODE 512
475-2201
301 WEST 2ND STREET

December 27, 1972

IN REPLY REFER TO
TWDBE-WD

[ ]

Humble Oil & Refining Co.
Wilson Tower
Corpus Christi, Texas 78401

[ ]

SC-1342

Re:
Laura D. Thomson "B", Well #12,
Garrett Roache Survey, A-59
Bee County, Texas

Gentlemen:

Reference is made to your inquiry of December 21, 1972 regarding the protection of usable-quality water strata in your proposed well.

Water-bearing strata must be protected down to a depth of 1400 feet.

NOTE: The depth to which we recommend that usable-quality water strata should be protected is intended to apply only to the subject well. Approval of the well-completion methods for protection of this ground water falls under the jurisdiction of the Railroad Commission of Texas. This recommendation is intended for normal drilling and production operations only and does not apply to salt water disposal operations. It should not be used as a recommendation for fieldwide usable-quality water protection rules.

Very truly yours,

M. E. Stephenson
Geologist, Surface Casing Section

cc: RRC, Austin
RRC, Dist. Office

#2

2-04893

TWDBE-WD-17

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

2-64893

FORM W-1
(3-1-70)

OEE
API NO. DIST. 2
42 025 30188

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1. Operator
Humble Oil & Refining Company

2. Address (including City and Zip Code)
Wilson Tower, Corpus Christi, Texas 78401

3. Is Form P-5 (Organization Report) in Your Operator Name Filed?
YES [X] V NO [ ]

4. Lease Name
Laura D. Thomson "B"

5. Location (Sec., Blk., Survey)
Garrett Roache (A-59)

6. This well is to be located 9.8 miles Northeast Direction from Skidmore, Texas Nearest Post Office or Town.

7. RRC District
Two

8. County
Bee

9. Well Number
12

10. Number of Acres in Lease
10,500

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.)
Over 467

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no spec. rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat Above	5900	----	467 1200	40	40	No	---	Yes	Oil	---	---

RECEIVED
RAILROAD COMMISSION OF TEXAS
DEC 21 1972
SAN ANTONIO, TEXAS

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature Brady Coyle GRADY COYLE
Title Proration Specialist
Date December 20, 1972
Telephone: Area Code 512 884-4571

REMARKS:
660 Feet & 15,760 Feet of Survey
1520' East of Burkes Ridge Field

- OVER -

0 0 0 2 1 4 1

467 1200 40 40 No Yes Oil

MAP ID #46

API# 42-025-32859
GAS WELL
PLUGGED

RECEIVED
RRC OF TEXAS
MAY 23 2013
OIL & GAS WELL COMPLIANCE
AUSTIN, TX

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

API No. (if available)	1. RRC District
42- 025-32859	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 166396

2. FIELD NAME (as per RRC records)	3. Lease Name	5. Well Number
Burkes Ridge (1660),	Thomas- Barrow Corp.	15

6. OPERATOR	6a. Original Form W-1 filed in name of:	10. County
C & E Operating Inc.		Bee

7. ADDRESS	6b. Any subsequent W-1's filed in name of:	11. Date Drilling Permit Issued
345 Commerce Green Blvd. Sugar Land TX 77498		11/20/1997

8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 723 feet from north line and 571 feet from east line of the Thomson-Barrow Corp.

12. Permit Number: 470280

9a. SECTION, BLOCK and SURVEY	9b. Distance and direction from nearest town in this county	13. Date Drilling Commenced
John Roache Grant A-60	9.2 miles NE from Papalote	11/29/1997

16. Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no.'s	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14. Date Drilling Completed
Gas	3078	Burkes Ridge	166383	G	15T	12/04/1997
18. If gas, amt. of cond. on hand at time of plugging		Burkes Ridge (1660)	166396	G	15C	15. Date Well Plugged 03/10/2013

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date 2013	3/9	3/9	3/10	3/10				
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2	4 1/2				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1950	1300	750	14				
*22. Sacks of Cement Used (each plug)	15	30	15	5				
*23. Slurry Volume Pumped (cu. ft.)	15.9	31.8	15.9	5.3				
*24. Calculated Top of Plug (ft.)	1800	952	650	4				
25. Measured Top of Plug (if tagged) (ft.)		947						
*26. Slurry Wt. #/Gal.	16.4	16.4	16.4	16.4				
*27. Type Cement	H	H	H	H				

Received
RRC of Texas
MAY 23 2013
Oil & Gas Division
San Antonio, Texas

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	454	450	12 1/4
4 1/2	10.5	2127	2123	7 7/8

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	1999	TO	2001	FROM	TO
FROM	1302	TO	1312	FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Matt W
Signature of Cementer or Authorized Representative

York Cementing & Acidizing
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Banning — REPRESENTATIVE OF COMPANY
Office Manager — TITLE
05/01/2013 — DATE
PHONE 361 — A/C
741-3600 — NUMBER

cdiaz 5/15/13
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

24117/0411

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? ☒ Yes ☐ No	32. How was mud applied? Circulate	33. Mud Weight 10.0 LBS/GAL

34. Total Depth 3078 Depth of Deepest Fresh Water 1100	Other Fresh Water Zones by T.D.W.R. TOP 0	BOTTOM 700	35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☒ Yes ☐ No
			36. If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well
York Cementing & Acidizing

Date RRC District Office notified of plugging 03/08/2013

38. Name(s) and address(es) of surface owners of well site
Thomson-Barrow Corp.
5847 San Felipe
Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs:
☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *
File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

RECEIVED
R.R.C. OF TEXAS
JAN 15 1998
OIL & GAS DIVISION
SAN ANTONIO

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42- 025-32859

7. RRC District No. 2

8. RRC Gas ID No. 166396

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (1600)

2. LEASE NAME: Thomson-Barrow Corp.

9. Well No. 15C

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.

RRC Operator No. 120079

10. County of well site: Bee

4. ADDRESS: 13333 Southwest Freeway, Suite 105 Sugar Land, Texas 77478

11. Purpose of filing
- Initial Potential [*]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): John r Roache Grant A-60

5b. Distance and direction to nearest town in this county.: 9.2 miles NE from Papalote

6. If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.
FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #

13. Pipe Line Connection: NGPL

14. Completion or recompletion date: 12/16/97

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16. Type of Electric or other Log Run.: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 12/16/97

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] | Positive Choke [X] | Orifice Vent Meter [ ] | Pitot Tube [ ] | Critical-flow Prover [ ]

Gas produced during test: 180 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. ^oF	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		14/64	1.116	550		80.0	0.9813	1.0084	1.0408	632
2		16/64	1.47	545		80.0	0.9813	1.0084	1.0404	825
3		18/64	1.885	540		80.0	0.9813	1.0084	1.0400	1048
4		24/64	3.4	520		80.0	0.9813	1.0084	1.0391	1818

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.590	Deg. API	CF/Bbl	G_{mix} = 0.590	88 ^oF	101 ^oF @ 1307 (Depth)

$D_{eff}^{8/3}$ = 17.981 $\sqrt{T_f}$ = $\sqrt{550.500}$ = 23.463 $\sqrt{T_{GL}}$ = $\sqrt{771.130}$ = 27.769

$C = \frac{1118 \times (D_{eff}^{8/3})}{\sqrt{T}}$ = = 856.807 $\frac{\sqrt{T_{GL}}}{C}$ = = 0.032

Return to Records Retention

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. ^oF	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			565	75.0	319				
1	60	14/64	550	80.0	303	20.5	0.4	550.4	0.9993
2	60	16/64	545	80.0	297	26.7	0.7	545.7	0.9988
3	60	18/64	540	80.0	292	34.0	1.2	541.1	0.9980
4	60	24/64	535	80.0	286	58.9	3.5	538.2	0.9940

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0264	1.0835	1.0290	581	337.6	
1	0.9997	0.0263	1.0810	1.0288	566	320.6	17.0
2	0.9994	0.0262	1.0806	1.0288	561	315.1	22.4
3	0.9990	0.0262	1.0802	1.0287	557	309.8	27.7
4	0.9970	0.0262	1.0798	1.0287	554	306.5	31.0

Angle of Slope
θ 45.00
n 1.0000

Absolute Open Flow
19789 ..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

RECORD CERTIFICATION
APR 03 1998

H. E. Van Nest — Target Well Services, Inc.
Signature: Well Tester — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boersig — President — 1/7/98 — Tel: 281/ 265-6500
Signature: Operator's representative — Title — Date — A/C Number

VALID PERMIT
PRODUCTION ALLOCATION
JAN 22 1998 7B

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [XX] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 11/20/07 — PERMIT NO. 470280
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
C & E Operating, Inc,

20. Number of producing wells on this lease in this field (reservoir) including this well: 3

21. Total number of acres in this lease: 5826.48

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 11/29/97 Completed 12/15/97

23. Distance to nearest well, Same Lease & Reservoir: 2808'

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 723 Feet From north Line and 571 Feet from east Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 125.1'

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay: 1302' | 28. Total Depth: 3078' | 29. P. B. Depth: 2083'

30. Surface Casing Determined by: Field Rules [ ] | Recommendation of T.D.W.R. Railroad Commission (Special) [X] | Dt. of Letter 11/25/97

31. Is well multiple completion? [X] Yes [ ] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
~~Burkes Ridge~~ (2040)	166383	G	15T
Burkes Ridge (1600)	166346	G	15C

33. Intervals Drilled by: Rotary Tools XX | Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24.0	454	-	245 sx "A"	12 1/4	surface	441
4 1/2"	10.5	2127	-	416 sx "A"	7 7/8	surface	911

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	1957	1957

39. Producing Interval (this completion) Indicate depth of perforation or open hole
From 1302 To 1312
From To
From To
From To

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
1999- 2001	Perf 4 SPF
1302-1312	Perf 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	2950		

REMARKS

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

Address to: Railroad Commission of Texas, Oil and Gas Division, Drilling Permits, P. O. Box 12967, Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office. Read Instructions on Back.

* Expedite *

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[XX] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42- 025-32859 Permit No 470280

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No: 02
5. County of Well Site: Bee
Rule 37 Case No.:

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
953535
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 15
9. Total Depth: 3150

10. Location
• Section ____ Block ____ Survey John Roache Grant Abstract No. A- 60
• This well is to be located 9.2 miles in a NE direction from Papalote which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 571 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 3150) 4001	3150	467/1200	40	40	No	NA	O/G	1	1
Burkes Ridge (1600) 13551600	1600	467/1200	40	40	No	2808'	~~O~~/G	1	3
Burkes Ridge (1900) 13551800	1900	467/1200	40	40	No	2527	~~O~~/G	1	2

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 723' FNL & 571' FEL
• Survey/Section 21289' FSL & 571' FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] If not filed, explain in Remarks

26 Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

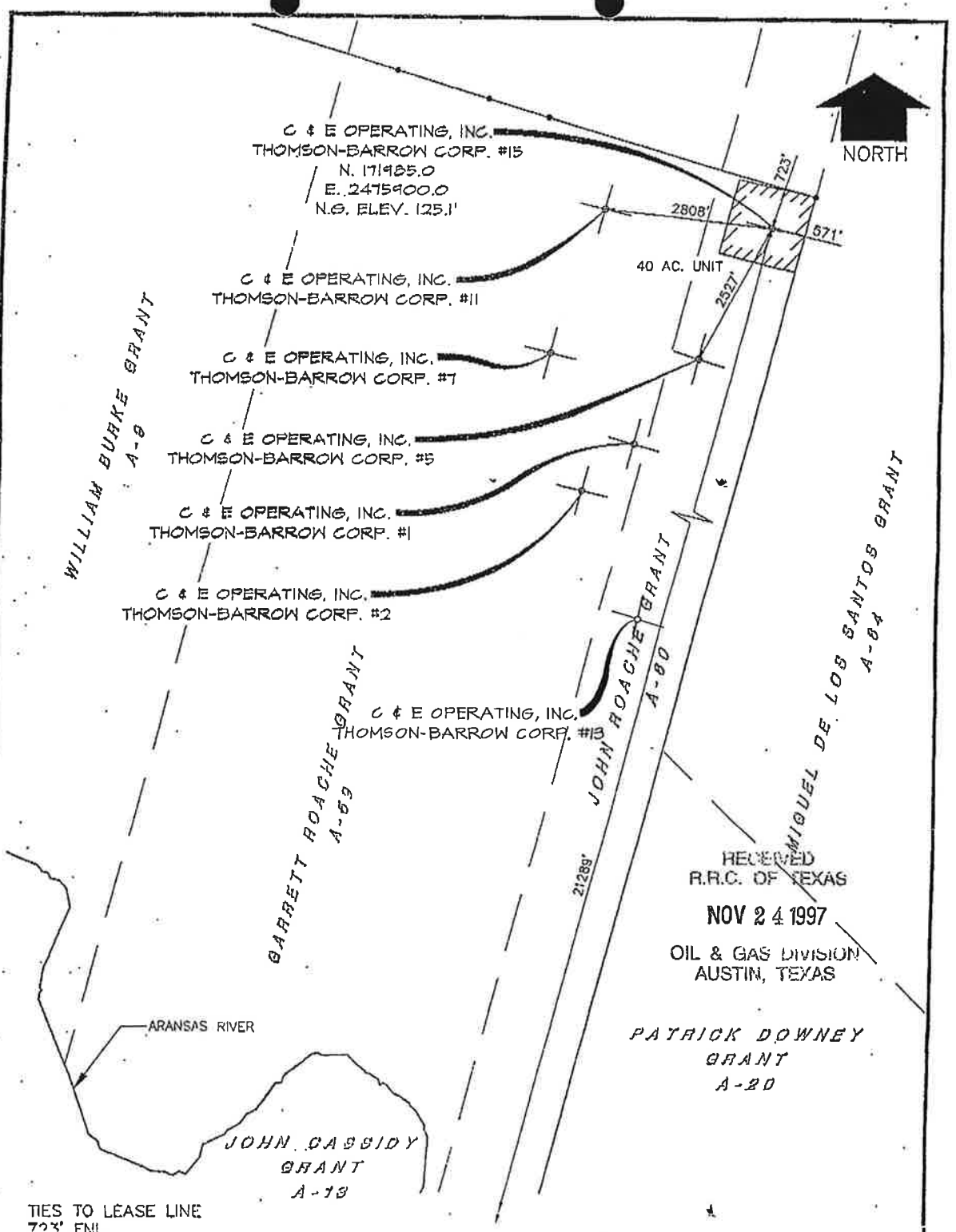
Terry L. Boening — Terry L. Boening/ President
Signature — Name and title of operator's representative

11 18 97 — 281/ 265-6500
Date: mo day yr. — Tel.: Area Code Number

125 APP 506 EXP 203773 NOV 1997

• RRC Use Only • 470280

025-32859



RECEIVED
R.R.C. OF TEXAS
NOV 24 1997
OIL & GAS DIVISION
AUSTIN, TEXAS

TIES TO LEASE LINE
723' FNL
571' FEL

TIES TO SURVEY LINES
21289' FSL
571' FEL

DISTANCE FROM NEAREST TOWN
12 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON NOVEMBER 13, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL LAND SURVEYOR

Michael D. Stridde
MICHAEL D. STRIDDE, REGISTERED PROFESSIONAL LAND SURVEYOR, TEXAS NO. 3589

11-17-97
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #15
JOHN ROACHE GRANT, A-60
PEE COUNTY, TEXAS

JOB NO. : 9773-501
SCALE : 1" = 2000'
DATE : 11/97
DWN. BY :

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

Form W-1
Rev 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

cont. Expedite

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes).
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-
▶ Permit No.
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code):
13333 Southwest Freeway
Suite 105
Sugar Land, Texas 77478

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No: #15
9. Total Depth: 3150'

10. Location
• Section _____ Block _____ Survey John Roache ~~Grant~~ Abstract No. A- 60
• This well is to be located 9.2 miles in a NE direction from Papalote, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 571' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
1355/850 Burkes Ridge (2040) (#2)	2040	467/1200	40	40	No	5450	O/G	1	3
13554700 Burkes Ridge, East (2100 SD)	2100	467/1200	40	40	No	NA	~~O/G~~	1	1
13600500 Burkhollow (2600 sand) (#13)	2600	467/1200	40	40	No	7035	O/G	1	2

22. Perpendicular surface location from two nearest designated lines: Code C
• Lease/Unit _____
• Survey/Section _____ Code A / 200

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [ ]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [ ]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [ ] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [ ] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

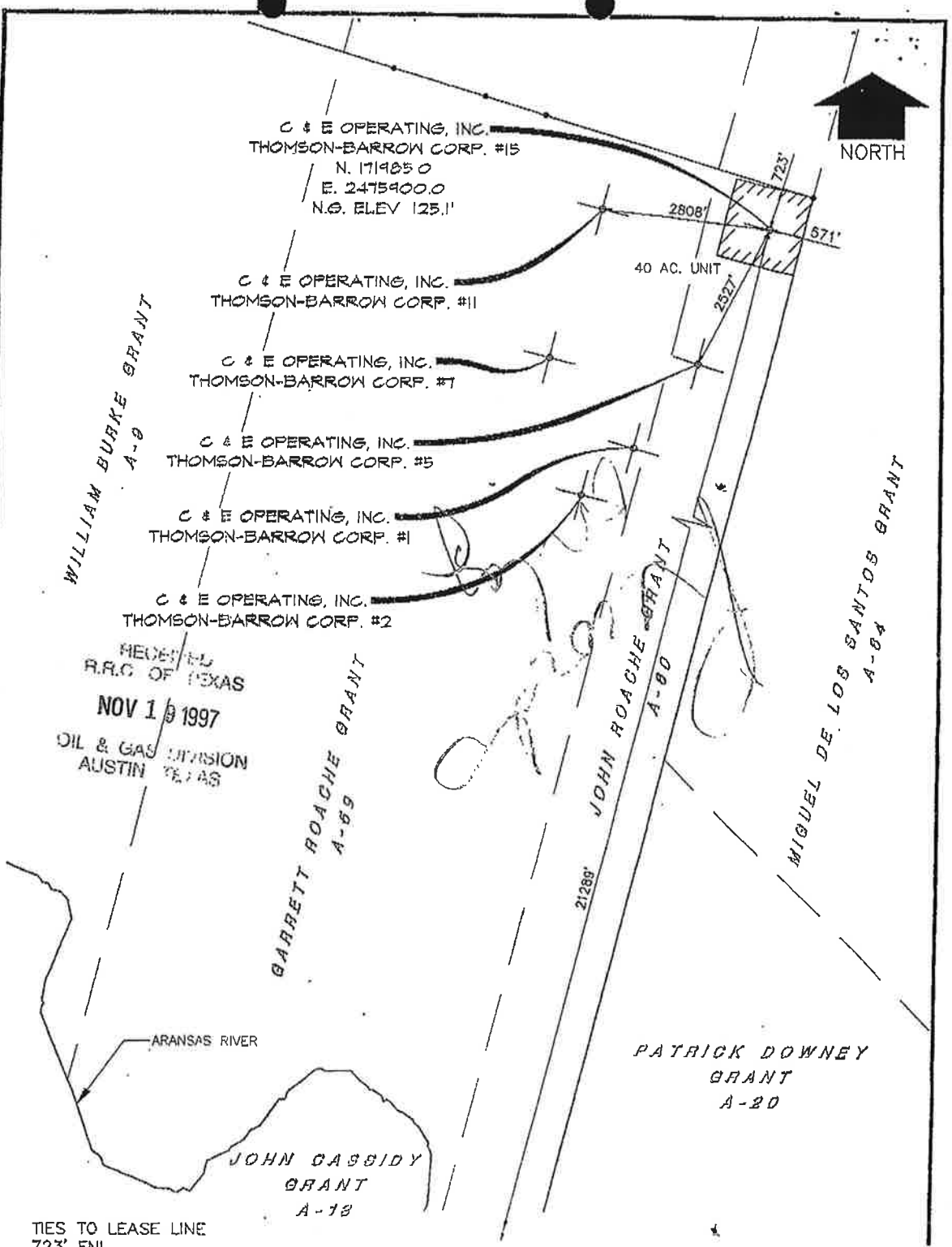
Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening — Signature
Terry L. Boening/ President — Name and title of operator's representative

Date: 11 mo. 18 day 97 yr. Tel.. 281/ 265-6500 Area Code Number

• RRC Use Only •



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NOV 19 1997
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AUSTIN, TEXAS

TIES TO LEASE LINE
723' FNL
571' FEL

TIES TO SURVEY LINES
21289' FSL
571' FEL

DISTANCE FROM NEAREST TOWN
12 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON NOVEMBER 13, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL LAND SURVEYOR

Michael D. Stridde
PROFESSIONAL LAND SURVEYOR, TEXAS NO. 3589

11-17-97
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #15
JOHN ROACHE GRANT, A-60
BEE COUNTY, TEXAS

JOB NO.	9773-501
SCALE	1" = 2000'
DATE	11/97
DWN. BY	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX • CONSULTING ENGINEERS • (512)289-1385

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R.R.C. OF TEXAS
JAN 05 1998
OIL & GAS DIVISION
CAN ANGELO, TEXAS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42-025-32859

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7. RRC District No.: 2
8. RRC Gas ID No.: 16383
9. Well No.: 15T
10. County of well site: Bee

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (2040)
2. LEASE NAME: Thomson-Barrow Corp.
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
RRC Operator No.: 120079
4. ADDRESS: 13333 Southwest Freeway, Suite 105 Sugar Land, Texas 77478
5. Location (Section, Block, and Survey): John Roache Grant A-60
5b. Distance and direction to nearest town in this county.: 9.2 miles NE from Papalote
6. If operator has changed within last 60 days, name former operator:
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #:
13. Pipe Line Connection: NGPL
14. Completion or recompletion date: 12/15/97
15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☒ No
16. Type of Electric or other Log Run.: Induction

11. Purpose of filing
- Initial Potential [*]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

Section I — GAS MEASUREMENT DATA

Date of Test: 12/15/97
Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ | Positive Choke [X] | Orifice Vent Meter ☐ | Pitot Tube ☐ | Critical-flow Prover ☐
Gas produced during test: 30 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr Coeff. Orif. or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp. ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		8/64	0.347	705		80.0	0.9813	1.0084	1.0526	255
2		7/64	0.287	715		80.0	0.9813	1.0084	1.0533	214
3		6/64	0.203	720		80.0	0.9813	1.0084	1.0537	152
4		5/64	0.145	725		80.0	0.9813	1.0084	1.0541	110

VAN-71 PERMIT

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix} =	Avg. Shut-in Temp.	Bottom Hole Temp.
0.590			0.590	95 ^oF	115 ^oF @ 2000 (Depth)

$D_{eff}^{8/3}$ = 6.307
$\sqrt{T_f}$ = $\sqrt{557.500}$ = 23.611
$\sqrt{GL}$ = $\sqrt{1180.000}$ = 34.351
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = 298.653 = ——— = 0.115

Return to Records Retention

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. ^oF	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			795	75.0	632				
1	60	8/64	705	80.0	497	29.3	0.9	705.6	0.9991
2	60	7/64	715	80.0	511	24.6	0.6	715.4	0.9994
3	60	6/64	720	80.0	518	17.5	0.3	720.2	0.9997
4	60	5/64	725	80.0	526	12.7	0.2	725.1	0.9998

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0399	1.1139	1.0454	831	690.6	
1	0.9996	0.0397	1.1055	1.0448	737	543.5	147.0
2	0.9997	0.0397	1.1062	1.0449	748	558.8	131.8
3	0.9999	0.0397	1.1065	1.0449	753	566.3	124.3
4	0.9999	0.0397	1.1069	1.0449	758	574.1	116.5

Angle of Slope
θ 45.00
n 1.0000
Absolute Open Flow
1198 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

H.E. Van Hess — Signature Well Tester
Target Well Services, Inc. — Name of Company
RRC Representative

RECORD CODIFICATION
APR 03 1998

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boesing — Signature Operator's representative
President — Title
1/7/98 — Date
Tel: 281/ 265-6500 — A/C Number

HS

PRODUCTION ALLOCATION

JAN 22 1998 JB

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 11/20/09 — PERMIT NO. 470280
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 3

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 11/29/97 Completed 12/15/97

22a. Distance to nearest well, Same Lease & Reservoir: 5450'

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 723 Feet From north Line and 571 Feet from east Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 125.1

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay	28. Total Depth	29. P. B. Depth	30. Surface Casing Determined by:
1999'	3078'	2083'	Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] Dt. of Letter 11/25/97

31. Is well multiple completion? [X] Yes [ ] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Burkes Ridge (2040)	166383	G	15T
Burkes Ridge (1600)	166396	G	15C

33. Intervals Drilled by: Rotary Tools [X] Cable Tools [ ]

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24.0	454	-	245 sx "A"	12 1/4	surface	441
4 1/2"	10.5	2127	-	416 sx "A"	7 7/8	surface	911

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	1957'	1957'

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1999'	To	2001
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
1999-2001	perf 4 SPF
1302-1312	perf 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	2950		

REMARKS W-1 + Plat with ID# 166396

Cementer Fill in shaded areas.
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P 5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating , Inc.	120079	02	Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Burkes Ridge (1600)/ Burkes Ridge (2040)	42- 025-32859	470280

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
Thomson-Barrow Corp.		166383	# 15C & 15T

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		11/30/97					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		25					
14 Size of casing (in O D)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		454					
17 Number of centralizers used		5					
18 Hrs waiting on cement before drill out		18					
1st Slurry	19 API cement used No of sacks ▶	135					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt					
2nd Slurry	No of sacks ▶	110					
	Class ▶	A					
	Additives ▶	CaCl2					
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶	301					
	Height (ft) ▶	729					
2nd	Volume (cu ft) ▶	140					
	Height (ft) ▶	339					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶	441					
	Height (ft) ▶	1068					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

T.N.R.C.C. LETTER DATED 11-28-97
Depth 1150, 875' ft.
13(A) Exception Dated 11-25-97
Surface Casing 400' ft.
D.V. @ ft.

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Russell L. Tremaine, Service Suprv. — Name and title of cementer's representative

B J Services Co. — Cementing Company

Russell L. Tremaine — Signature

411 Hartman Road — Address

Victoria, TX 77905 — City, State, Zip Code

512/575-6446 — Tel.: Area Code Number

11/30/97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative

President — Title

Terry L. Boening — Signature

13333 S.W. Frwy, Suite 105 — Address

Sugar Land, Texas 77478 — City, State, Zip Code

281/ 265-5600 — Tel.: Area Code Number

1 7 98 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT. Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5 Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operators , Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		6 API No	7 Drilling Permit No
Burkes Ridge (1600)/ Burkes Ridge (2040)		42-025-32859	470280
8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
Thompson-Barrows Corp.		166383	15C & 15T

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date				12-4-97			
13 •Drilled hole-size				7 7/8"			
•Est % wash or hole enlargement				15			
14 Size of casing (in O D)				4 1/2"			
15 Top of liner (ft)							
16 Setting depth (ft)				2127			
17 Number of centralizers used				11			
18 Hrs waiting on cement before drill-out				N/A			
1st Slurry	19 API cement used No of sacks ▶			206			
	Class ▶			A			
	Additives ▶			Poz,Gel,Salt,Cello Flakes			
2nd Slurry	No of sacks ▶			210			
	Class ▶			A			
	Additives ▶			KCL,FL-25			
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶			459			
	Height (ft) ▶			2015			
2nd	Volume (cu ft.) ▶			252			
	Height (ft) ▶			1106			
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶			911			
	Height (ft) ▶			3121			
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

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R.R.C. OF TEXAS
JAN 09 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Dennis Duderstadt-Service Supervisor BJ Services Co. — Name and title of cementer's representative; Cementing Company

Dennis D Duderstadt — Signature

411 Hartman Rd. — Address

Victoria, TX 77905 — City, State, Zip Code

512 575-6446 — Tel.: Area Code Number

12-4-97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative

President — Title

Terry L. Boening — Signature

13333 Southwest Freeeway , Suite 105 — Address

Sugar Land, Texas 77478 — City, State, Zip Code

281/ 265-6500 — Tel.: Area Code Number

1 7 98 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging) For **offshore** operations, see the requirements of Rule 13 (c)

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

MAP ID #47

API# 42-025-32777
DRY HOLE

0 0 0 0 5 3 2 6 9

RECEIVED
R.R.C. OF TEXAS
SEP 30 1996
OG
SAN ANTONIO, TX

(47)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (if available) 42 025 32777

1. RRC District: 02

4. RRC Lease or Id. Number:

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records): Wildcat	3. Lease Name: Thomson-Barrow Corp.	5. Well Number: 7
6. OPERATOR: C & E Operating, Inc.	6a. Original Form W-1 Filed in Name of:	10. County: Bee
7. ADDRESS: 13333 Southwest Freeway, Suite 105	6b. Any Subsequent W-1's Filed in Name of:	11. Date Drilling Permit Issued: 8/6/96
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3700 Feet From NE Line and 3418 Feet From SE Line of the Thomson-Barrow Lease		12. Permit Number: 450780
9a. SECTION, BLOCK, AND SURVEY: Garrett Roache	9b. Distance and Direction From Nearest Town in this County: 14 miles NW of Woodsboro	13. Date Drilling Commenced: 8/3/96
16. Type Well (Oil, Gas, Dry): Dry — Total Depth: 2910	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s: GAS ID or OIL LEASE # / Oil-O Gas-G / WELL #	14. Date Drilling Completed: 8/7/96
18. If Gas, Amt. of Cond. on Hand at time of Plugging		15. Date Well Plugged: 8/7/96

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	8-6-96	8-6-96	8-6-96					
20. Size of Hole or Pipe in which Plug Placed (inches)	7-7/8"	7-7/8"	8-5/8"					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1400	400	73					
*22. Sacks of Cement Used (each plug)	36	47	7					
*23. Slurry Volume Pumped (cu. ft.)	42.48	55.46	8.26					
*24. Calculated Top of Plug (ft.)	1300	300	3					
25. Measured Top of Plug (if tagged) (ft.)	1285							
*26. Slurry Wt. #/Gal.	15.8	15.8	15.8					
*27. Type Cement	'H'	'H'	'H'					

RECORD CODIFICATION
OCT 14 1996

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8-5/8"	24#	350	347	12-1/4"

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

Return to Records Retention

OCT 1996 LOG REC'D RECORDS

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

[signature] — Signature of Cementer or Authorized Representative

Roywell Svc. — Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boening — REPRESENTATIVE OF COMPANY
Terry L. Boening — President — TITLE
09/24/96 — DATE
Phone 713/265-6500 — A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING

025-32777

31. Was Well filled with Mud - Laden Fluid, according to the regulations of the Railroad Commission ☐ Yes ☐ No

32. How was Mud Applied? Circ.

33. Mud Weight 9.9# LBS/GAL

34. Total Depth 2910'

Depth of Deepest Fresh Water 1350'

Other Fresh Water Zones by T.D.W.R. TOP / BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? ☐ Yes ☐ No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
Roywell Services, Refugio, Texas

Date RRC District Office notified of plugging 9/6/96

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases
Thomson-Barrow Corp.
5847 San Felipe, Suite 3830
Houston, Texas 77057

39. Was Notice Given Before Plugging to Each of the Above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☒ Log Attached ☐ Log released to _____ Date _____

Type Logs:
☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

41. Date FORM P-6 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*
* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY
Nearest Field _____

REMARKS _____

0 0 0 0 5 3 2 5) RECEIVED RRC TEXAS

SEP 3 0 1996

OG
SAN ANTONIO TX

Operator: Fill in shaded areas
Operator: Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
482-005

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operatoring, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)	**6 API No**		**7 Drilling Permit No**
Wildcat	42- 025-32777		450780
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease Gas ID No**	**11 Well No.**
Thomson-Barrow Corp.			7

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		8-04-96					
13. *Drilled hole size		12 1/4					
*Est. % wash or hole enlargement		25%					
14. Size of casing (in. O.D.)		8 5/8					
15. Top of liner (ft.)							
16. Setting depth (ft.)		339					
17. Number of centralizers used		5					
18. Hrs. waiting on cement before drill out		6					
1st Slurry	19. API cement used. No. of sacks ▶	190					
	Class ▶	A					
	Additives ▶	$CaCl_2$					
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped Volume (cu. ft.) ▶	241					
	Height (ft.) ▶	584					
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	241					
	Height (ft.) ▶	584					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

22. Remarks

OVER ▶

000053 2589

Form W-1
Rev. 3/93

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-3000' - $100, 3001' - 4000' - $125
4001' - 9000' - $150, 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32777
▶ Permit No. 450780
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 7
9. Total Depth: 2900

953535

10. Location
• Section _____ Block _____ Survey Garrett Roache ~~Grant~~ Abstract No. A-59
• This well is to be located 14 miles in a NW direction from Woodsboro which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 3418' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.48 (OUTLINE ON PLAT.)

Granted 8/6/96

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (above 2900') 4001	2900'	467/1200	40	40	No	NA	G	0	0
Burkes Ridge (Greta)	2740'	467/1200	40	40	No	NA	G	0	0
13551120		Code A1200							

Code 2700

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 3700' ~~FN~~ FSL: 3418' ~~FEL~~ FSEL
• Survey/Section 12826' ~~FSL~~ 1770' FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]
24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [ ]
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.
26. Do you have the right to develop the minerals under any right-of-way that crosses or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see instructions for Rule 37.

I certify that information stated in this application is true and complete, to the best of my knowledge.

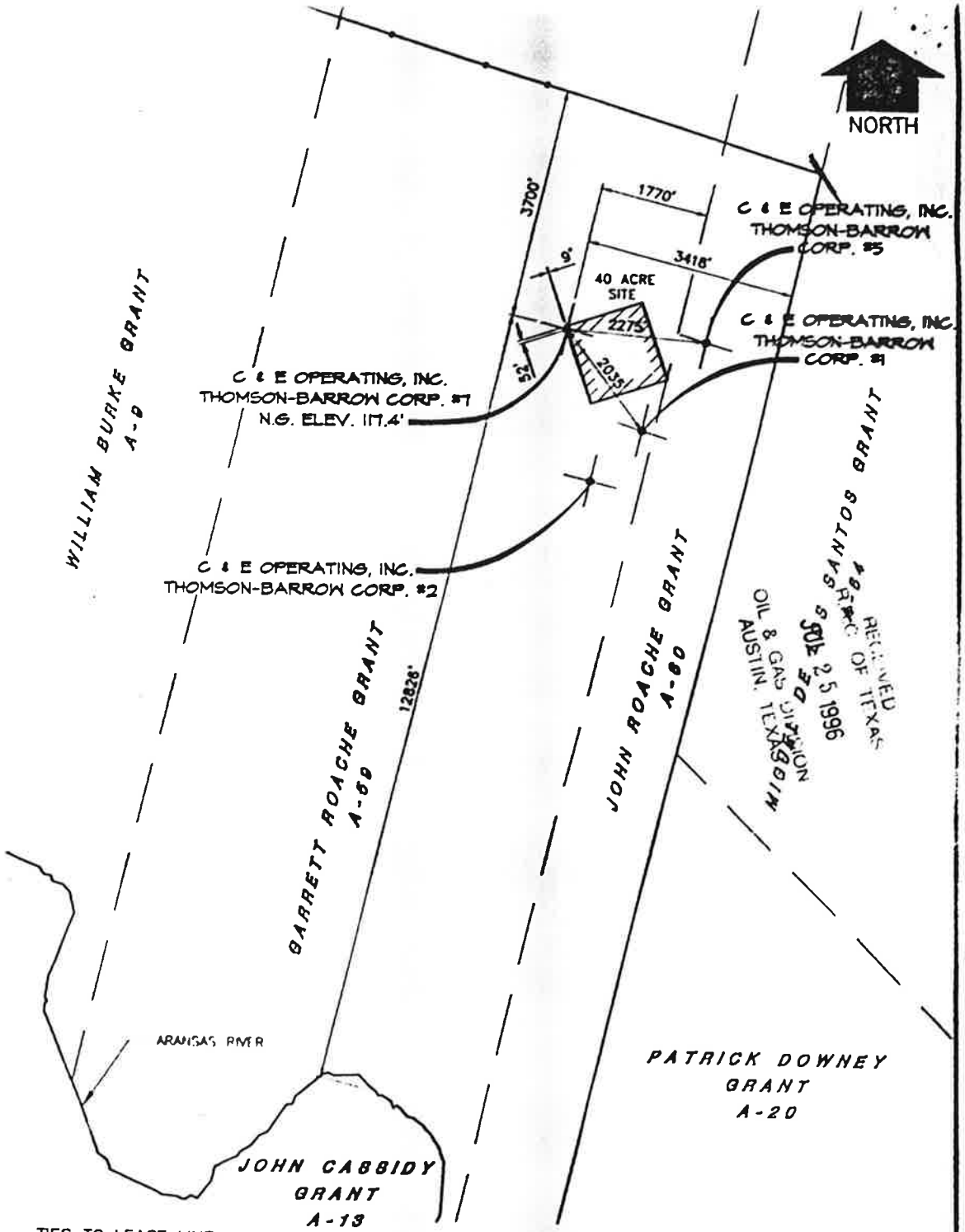
Terry L. Boening, President
Signature — Name and title of operator's representative
07/24/96 — (713) 265-6500
Date: mo. day yr. — Tel.: Area Code Number

Remarks
$50 for expedite per Laurie 7/25/96

125 4000
50 EXP
214637 JUL 25 96

• RRC Use Only •
450780

025-32777



TIES TO LEASE LINE
3700' FNL
3418' FEL

TIES TO SURVEY LINES
12826' FSL
1770' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
12646'

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON JULY 10, 1996 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

Michael D. Stridde 7-16-96

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3584

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3584
PROFESSIONAL
LAND SURVEYOR

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #7
GARRETT ROACHE GRANT, A-59

DWG. No. 96.7.1-500
SCALE 1" = 2000'
DATE 7/96

GOVIND SURVEYORS, INC.

MAP ID #48

API# 42-025-30194
DRY HOLE

(48)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2
4 RRC Lease or Id. Number:

2. FIELD NAME (as per RRC Records): BURKE & RIDGE
3. LEASE NAME: LAURA D THOMSON "B"
5. Well Number: 13
6. OPERATOR: EXXON CORPORATION
10. County: BEE
7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
11. Date Drilling Permit Issued: 2-12-73
8. SURFACE LOCATION — FEET FROM ____ LINE, AND ____ FEET FROM ____ LINE
12. Date Drilling Commenced: 3-6-73
9. SECTION, BLOCK, AND SURVEY: GARRETT ROACHE (A-54)
13. Date Drilling Completed: 3-11-73
15. Type of Well (Oil, Gas, Dry)*: DRY
16. Type of Completion (Single, Dual, Etc.)
17. Total Depth: 4922
14. Date Well Plugged: 3-13-73
18. FORM W-1 (Intention to Drill) Filed in Name of: EXXON CORPORATION

19. Manner of Placement

PLUG #1	30	SACKS	TOP	4750	BOTTOM	4922	TYPE CLASS A
PLUG #2	70	SACKS	TOP	2600	BOTTOM	2260	TYPE CLASS A
PLUG #3	100	SACKS	TOP	1350	BOTTOM	1025	TYPE CLASS A
PLUG #4	10	SACKS	TOP	3	BOTTOM	30	TYPE CLASS A

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES X NO
21. How was Mud applied? PUMPED
22. Mud Weight: 9.5 LBS/GAL
23. Depth of Deepest Fresh Water: 1400 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO
25. If NO, Explain
26. Name and Address of Party Plugging Well: DOWELL DIVISION OF DOW CHEMICAL CO, BOX 1189, VICTORIA, TEXAS
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8-5/8"	1423.99		1423.99	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: NONE

29. Was Notice given before Plugging to each of the above and RRC District Office? YES X NO

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle
REPRESENTATIVE OF COMPANY

GRADY COYLE, PRODUCTION SPECIALIST
TITLE

4-27-73
DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

RECEIVED
R. R. C. OF TEXAS
MAY 15 1973

025-30194

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Burkes Ridge	*2. RRC District: 2
*3. Operator: Exxon Corporation	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Laura D. Thomson "B"	*6. Well Number: 13
*7. Location (Section, Block, and Survey): Garrett Roache (A-59)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	3-7-73					
*9. (a) Size of Drill Bit (inches)	11"					
(b) Estimated % Wash or Hole Enlargement Used in Calculations	90%					
*10. Size of Casing (inches O.D.)	8 5/8"					
*11. Top of Liner (if liner used) (ft.)	-					
*12. Setting Depth of Casing (ft.)	1137'					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	Class A + Gel + 3# Salt					
(b) In Second Slurry	Class A + 3% cacl					
(c) In Third Slurry	Class A + 3% cacl	(for top outside)				
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	225					
(b) In Second Slurry	150					
(c) In Third Slurry	30					
(d) Total Sacks of Cement Used	505					
15. Slurry Volume per Sack (Cement (cu.ft./sack)) (a) In First (Lead) or Only Slurry	1.86					
(b) In Second Slurry	1.18					
(c) In Third Slurry	1.18					
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	418					
(b) In Second Slurry	177					
(c) In Third Slurry	35					
(d) Total Slurry Volume Pumped (cu.ft.)	650					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	To surface					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. D. OF TEXAS
MAY 15 1973

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

*Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30192

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Burkes Ridge	*2. RRC District: 2
*3. Operator: Exxon Corporation	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Laura D. Thomson "B"	*6. Well Number: 15
*7. Location (Section, Block, and Survey): Garrett Roache (A-59)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "Remarks" or reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) Item 14 x Item 15: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	3-13	3-13	3-13	3-13		
*20. Size of Hole or Pipe in which Plug Placed (inches)	7-7/8	7-7/8	8-5/8	8-5/8		
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4922	2900	1720	30		
22. Sacks of Cement Used (each plug)	30	70	100	10		
23. Slurry Volume Pumped (cu. ft.)	66	154	118	11.8		
24. Calculated Top of Plug (ft.)	4750	2600	1350	3 ft. below ground level		
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. COMMISSION OF TEXAS
MAY 15 1973
OIL & GAS DIVISION

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

OVER

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30194

26 Remarks: L. D. Thomson B-13, Bee County, Tex. *27. Remarks:
Burkes Ridge Field, Exxon Corporation
Plug in 8" OH 4922-4750 using 30 sx A + 12% gel
Plug in 9½" OH 2900-2600 using 70 sx A+12% gel
Cement retainer @ 1425' 8-5/8 csg. 75 sx below
25 sx A on top. 10 sx A+ Top plug 3' below ground to 30'.

Return to Capital Records

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Clifton Schneider
Signature of Cementer or Authorized Representative

Clifton Schneider, Service Sale Engineer
Name of Person and Title (type or print)

Dowell Div. Dow Chemical Company
Cementing Company

Box 1189
Street Address or P.O. Box

Victoria, Texas
City, State Zip Code

Telephone 512 573-6379
Area Code

March 13, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

I. R. Wesson, Jr.
*Signature of Operator or Authorized Representative

I. R. Wesson, Jr., Eng. Tech.
*Name of Person and Title (type or print)

Exxon Corporation
*Operator

Wilson Tower
*Street Address or P.O. Box

Corpus Christi, Texas 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

April 27, 1973
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3,
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 9, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.

DRILLER'S LOG

Laura Thomson "B", Well #13
Burkes Ridge Field, Bee County, Texas

0 -	13	Rotary Space
13 -	410	Sand & Surface Clay
410 -	925	Sand & Shale
925 -	1450	Sand & Shale
1450 -	1860	Sand & Shale
1860 -	2610	Sand & Shale
2610 -	3410	Sand & Shale
3410 -	3615	Shale
3615 -	4120	Sand & Shale
4120 -	4730	Sand & Shale
4730 -	4922 TD	Sand & Shale

The above was taken from the Driller's Daily Report and is true and correct to the best of my knowledge.

Grady Coyle

Grady Coyle, Proration Specialist
Oil and Gas Accounting Section

HC:ebc
5/11/73

RECEIVED
R. R. C. OF TEXAS
MAY 15 1973

025-30194

FORM W-1
(3-1-70)

RAILRO[illegible] COMMISSION OF TEXAS
[illegible]ND GAS DIVISION

GEE DIST. 2
API NO. 42 025 30194

6

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1. Operator: Exxon Corporation
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78401
3. Is Form P-5 (Organization Report) in Exact Operator Name File? YES [X] NO [ ]
4. Lease Name: Laura D. Thomson "B"
5. Location (Sec., Blk., Survey): Garrett Roache (A-59)
6. This well is to be located 9.4 miles Northeast direction from Skidmore, Texas. Nearest Post Office or Town.
7. RRC District: Two
8. County: Bee
9. Well Number: 13
10. Number of Acres in Lease: 10,500
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): Over 467

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Stat wide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested: OIL	GAS
Burkes Ridge (Vksbg 4800)	4800	04893	467 1200	40	40	No	1320	Yes	Oil	1	--
Wildcat Above 5400'	5400	--	467 1200	40	40	No	--	Yes	Oil	--	--

6 025 30194

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

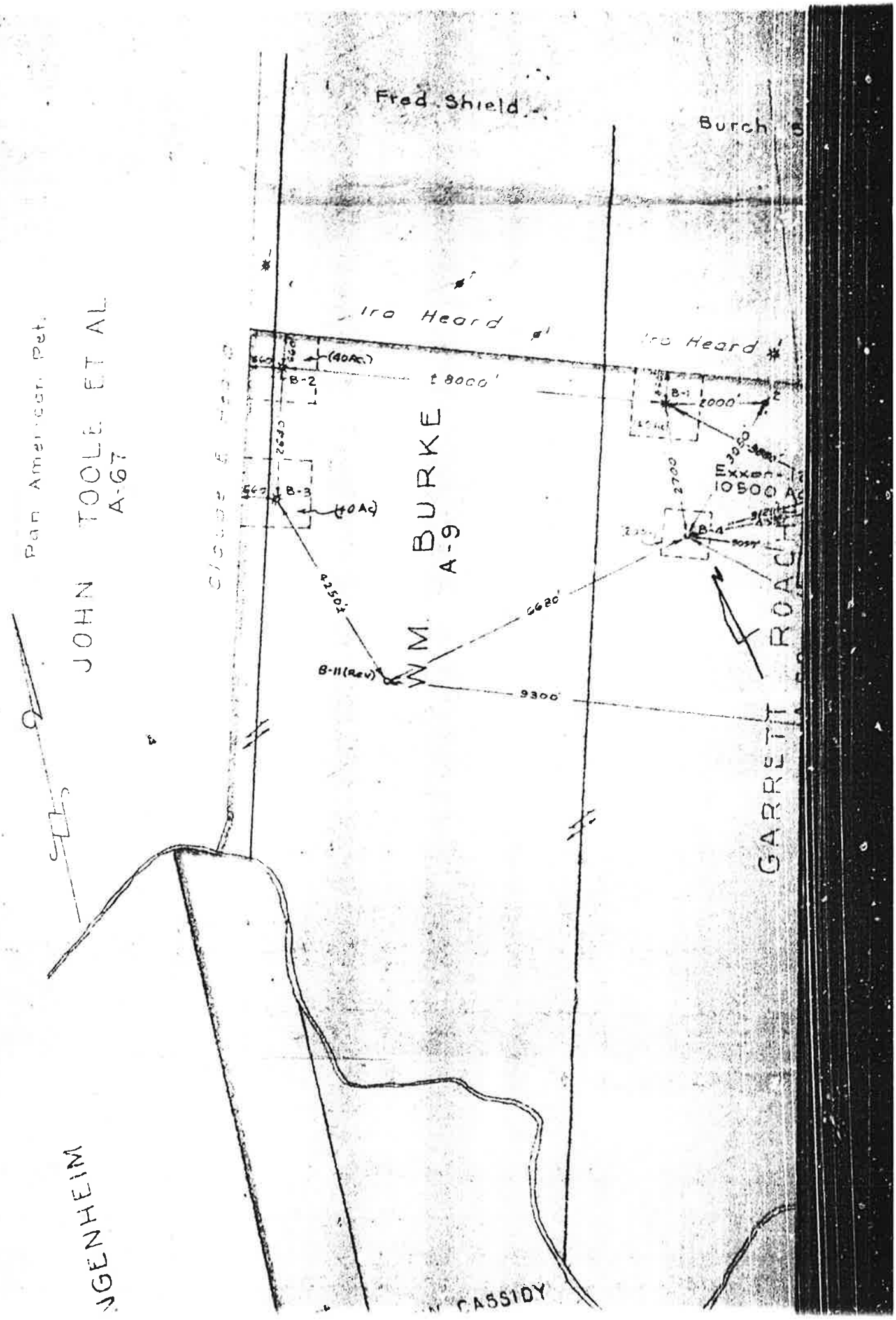
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS:

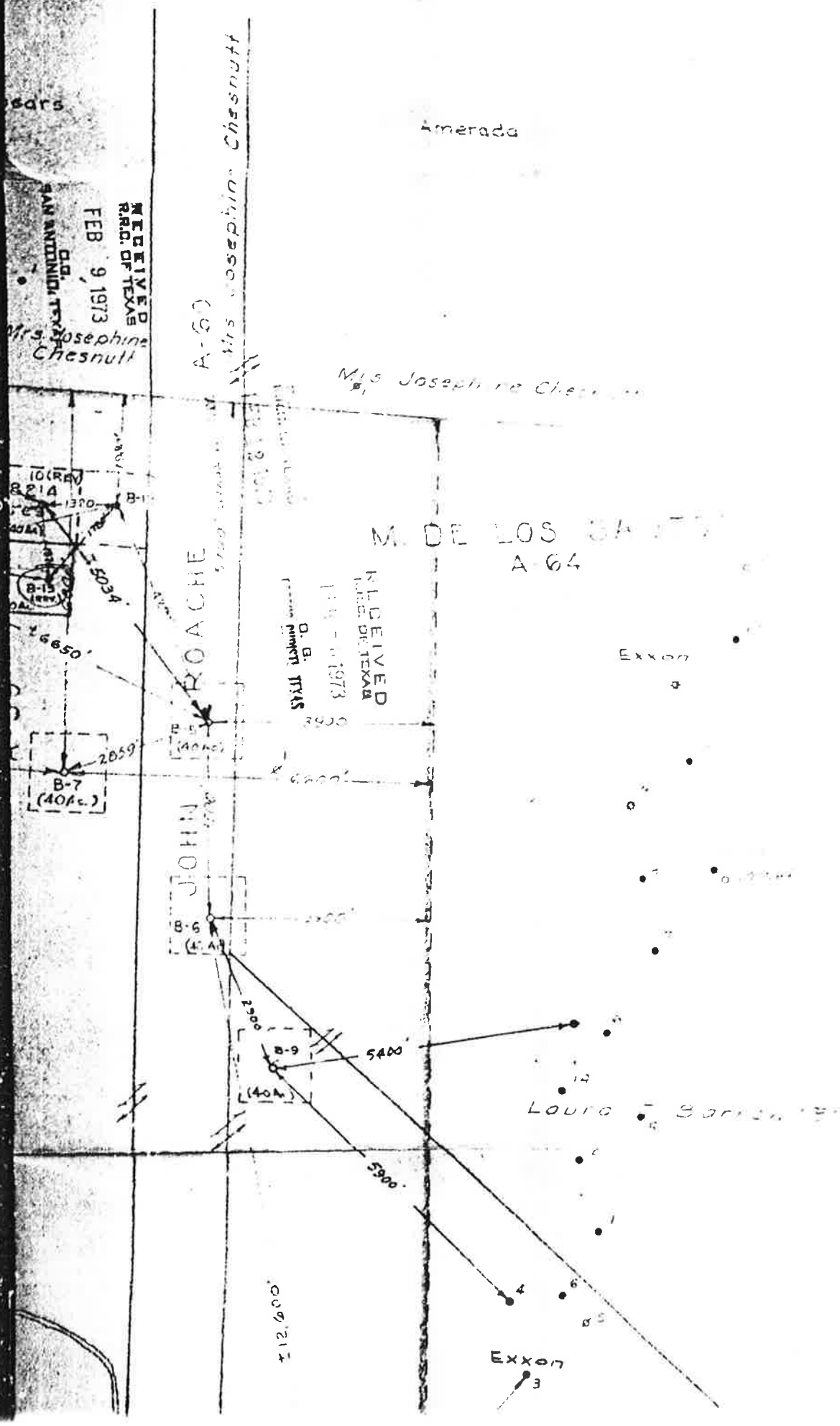
RECEIVED
R.R.C. OF TEXAS
FEB 9 1973
O.G.
SAN ANTONIO, TEXAS

Signature: Grady Coyle by Grady Coyle
Title: Proration Specialist
Date: February 8, 1973
Telephone: Area Code 512 884-4571

- OVER -



Fred Shield
Burch
Iro Heard
Iro Heard
Pan American Pet.
JOHN TOOLE ET AL
A-67
WM BURKE
A-9
B-1
B-2
B-3
B-4
B-11(Rev)
(40Ac.)
(40Ac)
8000'
2000'
2700
4250'
6620'
9300'
Exxon
10500 Ac
GARRETT ROAD
CASSIDY



Amerada
Mrs. Josephine Chesnutt
RECEIVED
R.R.C. OF TEXAS
FEB 9 1973
O.G.
SAN ANTONIO, TEXAS
Mrs. Josephine Chesnutt
A-60
Mrs. Josephine Chesnutt
M. DE LOS
A-64
JOHN ROACHE
RECEIVED
R.R.C. OF TEXAS
O.G.
TEXAS
Exxon
B-7
(40Ac.)
B-6
B-9
(40Ac.)
5400'
5900'
Exxon

MAP ID #49

API# 42-025-32033
DRY HOLE

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

(49)

API NO. 42-025-32033

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

RRC District: 2

FIELD NAME (as per RRC Records): Wildcat

OPERATOR: Exxon Corporation

ADDRESS: Wilson Tower Bldg, Corpus Christi, Tex 78476

Lease Name: Laura D. Thomson "L"

Well No.: 18

Sec. Original Form G-1 Filed in Name of:

Any Subsequent G-1 Filed in Name of:

Type Well: Bea

Date Drilling Permit Issued: 8-26-83

Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 7175 ft. from N line and 3625 ft. from E line of the Laura D. Thomson

Permit Number: 207791

SECTION, BLOCK AND SURVEY: Garrett Roache (A-59)

Distance and Direction From Nearest Town in County: 9 miles NE of Skidmore

Date Drilling Commenced: 10-3-83

Type Well: Dry

Total Depth: 9000

If Multiple Completion List All Field Names and Oil Lease or Gas ID Numbers:

Date Drilling Completed: 11-29-83

If Gas, Est. Cu. Ft. per 24 Hour Flow at Time of Plugging:

Date Well Plugged: 12/7/83

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
Cementing Date	12/6	12/7	12/7	12/7				
Size of Hole or Pipe in which Plug Placed (inches)	5"	7 5/8	7 5/8	7 5/8				
Depth to Bottom of Tubing or Drill Pipe (ft.)	6130	4840	1600	45				
Sacks of Cement Used (each plug)	50	50	75	10				
Slurry Volume Pumped (cu. ft.)	62	53	88.5	11.8				
Calculated Top of Plug (ft.)	6004	4634.4	1257	0' Surface				
Measured Top of Plug, if Tagged (ft.)								
Slurry Wt. (lbs./gal.)	17.3	16.4	15.6	15.6				
Type Cement	H	H Neat	A Neat	A Neat				

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
10¾	40.5	1618	1618	14 3/4
7⅝	29.7	5310	5310	9 7/8
5½	20	1482	1482	6 3/4

Were any open hole logs run? Yes / No. If yes, were logs filed with the RRC? Yes / No. (Logs must be filed on the same day as the plugging date for this well to be considered complete.) Were all logs run on this well and their purpose (resistivity, porosity, etc.) filed with the RRC? Yes / No. If no, explain in Remarks section. Was any information from logs run on this well (or other wells, for that matter) used as the basis for preparing this Form? Yes / No. If yes, attach explanation.

Was well filled with mud-laden fluid of sufficient density to exert pressure greater than any formation pressure encountered? Yes / No. If no, explain in Remarks section. Was cement used behind pipe to plug and abandon well? Yes / No. If no, explain in Remarks section. Was well plugged in accordance with the RRC approved plugging procedure? Yes / No. If no, explain in Remarks section. Was any deviation from the RRC approved plugging procedure necessary? Yes / No. If yes, explain in Remarks section. Was any casing left in hole? Yes / No. If yes, see Remarks section. Was any casing cut and pulled? Yes / No. If yes, see Remarks section. Were any freshwater sands protected? Yes / No. If yes, see Remarks section. Were any hydrocarbon sands protected? Yes / No. If yes, see Remarks section. Were any cement plugs tagged? Yes / No. If yes, see Remarks section. Were any junk or fish left in hole? Yes / No. If yes, see Remarks section. Remarks: See Reverse Side of Form for Additional Space if Needed.

Plugging Witnessed by RRC Representative? Yes / No. If yes, Witness' Name: [illegible] Witness' Title: [illegible] Witness' Company: [illegible] Date Witnessed: [illegible]

Plugging Approved by RRC Representative? Yes / No. If yes, Approved by: [illegible] Date Approved: 9-21-83

LIST ALL OPEN HOLE AND OR PERFORATED INTERVALS

FROM	TO	
6180	9000	Open Hole

FROM	TO
1600	

I certify that the proposed plugging operations as reflected by the information found on this form [illegible] and that all cementing operations will be conducted by cementing companies [illegible] not so designated shall be plugged by operator.

Ralph Goulding
Signature of Cementer or Authorized Representative

The Western Company of North America
Name of Cementing Company

CERTIFICATE:

I declare under penalty prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete, to the best of my knowledge.

Return to Central Records

Helen Casner
SIGNATURE OF AUTHORIZED REPRESENTATIVE OF COMPANY

Proration Specialist
TITLE

2-1-84
DATE

512-887-2221
A'C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

FEB 06 1984

025-32033

MAPPING 18

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission? ☑ Yes ☐ No	32. How was Mud Applied? Pumped through tubing	33. Mud Weight 9.5 LBS/GAL	
34. Total Depth 9000	Other Fresh Water Zones by T.D.W.R. TOP / BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to R.R.C. Rules? ☑ Yes ☐ No	
Depth of Deepest Fresh Water 1600		36. If NO, Explain	

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well. Date R.R.C. District Office notified of plugging

Western Company of North America P.O. Box 1730 Alice, Texas 78333

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

39. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical Sonic Log or such Log must be released to a Commercial Log Service.

☑ Log Attached ☐ Log released to _____ Date _____

Type Logs

☑ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical Sonic

40. Date FORM P-4 Special Clearance Filed?

41. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 Oil Production Report for month this oil was produced

R.R.C. USE ONLY

Nearest Field _____

REMARKS

EXXON COMPANY, U.S.A.

DRILLER'S LOG

FROM	TO		FORMATION
0	4209		sand & clay
4209	4608		sand, shale
4608	4831		sand, clay
4831	5310		sand, shale
5310	5397		shale
5397	5633		sand, shale
5633	5835		shale
5835	6035		sand, shale
6035	6084		sand
6084	6193		sand, shale
6193	6984		shale
6984	7830		sand, shale
7830	9000	T.D.	shale

I, HELEN CASNER, REPRESENTING EXXON CORPORATION, DO CERTIFY THAT THE FOREGOING HAS BEEN EXTRACTED FROM THE DAILY DRILLERS REPORT OF THE Laura Thomson "B" #18 WELL IN Bee COUNTY, TEXAS AND THAT THE SAME IS A TRUE AND CORRECT STATEMENT OF THE INFORMATION REVEALED IN THE REPORT, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

EXXON CORPORATION

DATE: 2-1-84

BY: Helen Casner
HELEN CASNER

FEB 06 1984

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
403-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
Exxon Corporation	257097	2	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7 Drilling Permit No**
Wildcat		42-025-32033	207791
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease Gas ID No**	**11 Well No**
Laura D. Thomson 'B'			18

CASING CEMENTING DATA:		SURFACE CASING	INTER MEDIATE CASING	PRODUCTION CASING		MULTI STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		10/4/83					
13 *Drilled hole size		14 3/4					
*If a wash or hole enlargement							
14 Size of casing (in. OD)		10 3/4					
15 Top of liner (ft.)							
16 Setting depth (ft.)		1618					
17 Number of centralizers used							
18 Was cement circulated behind casing							
1st Slurry	19 API cement used No. of sacks ▶	800					
	Class ▶	"A"					
	Additives ▶	8% Gel + 5% Salt					
2nd Slurry	No. of sacks ▶	250					
	Class ▶	"A"					
	Additives ▶	2% $CaCl_2$					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu. ft.) ▶	1536					
	Height (ft.) ▶	2761					
2nd	Volume (cu. ft.) ▶	295					
	Height (ft.) ▶	530					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	1831					
	Height (ft.) ▶	3291					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

22 Remarks

RECEIVED
FEB 06 1984

OVER ▶

052-1070

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev 5-1-80)

CEMENTING REPORT

Field Name (as per RRC Records or Wildcat)	Wildcat
Operator	EXXON Corporation
Lease Name and RRC Gas Identification (or P. U. Number)	LAURA D. Thomson "B"
County, Texas	BEE
RRC District	2
Well No.	18
Survey and Abstract	Garrett Roache (A-59)

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
Cementing Date		10/13/83				
Size of Casing (O.D. in inches)		9 7/8				
Weight per Foot of Casing		7 5/8				
Hole Size						
Depth of Casing		5310				
Type Cement and Additives (API Class, Additives, Percent, Gel, Pozmix, Etc.)		Cl H- 5% CF-10-35% CFR-15 Cl H- 8% CFLT				
Amount of Cement (Sacks)		395				
Slurry Volume		385				
Type Fluid Used to Displace Cement						
Distance to Nearest Well in Any Direction in Same Reservoir		780				
Weight/Gal. of Lead Slurry		1.33				
Weight/Gal. of Second Slurry		1.06				
Weight/Gal. of Third Slurry						
Volume of Slurry Pumped (Cubic Ft.) Lead Slurry		525.4				
Second Slurry		408.1				
Third Slurry						
Total Volume of Cement Slurry		933.5				
Calculated Annular Height of Cement Behind Casing		1134.1				
Was cement circulated to ground surface (or bottom of cellar) outside casing? Yes or No		NO				

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
Cementing Date						
Size of Hole or Pipe in which Plug Placed (inches)						
Depth to Bottom of Tubing or Drill Pipe (ft.)						
Sacks Cement Used (each plug)						
Slurry Volume Pumped (cu. ft.)						
Calculated Top of Plug (ft.)						
Measured Top of Plug (if tagged)						

CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.

– OVER –

Items not so designated shall be completed by Cementing Company.

0 0 0 0 0 4 1 0 7 8 0

052-1070

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev. 5 1 80)

CEMENTING REPORT

* Field Name (as per RRC Records or Wildcat) Wildcat	* RRC District 2
* Operator EXXON Corporation	* County BEE
* Lease Name or RRC Lease Number and Well I.D. Number LAURA D. Thomson 'B'	* Well Number 18
* Location (Section, Block and Survey)	

CASING CEMENTING DATA	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
* Cementing Date		11-4-83				
* a) Size of Hole (In Inches)		6 3/4				
* Weight, Grade and Type of Casing						
* Size of Casing (Inches O.D.)		5 1/2				
* Top of Liner (If Applicable) (Ft.)		4698				
* Setting Depth of Casing (Ft.)		6180				
* Type API Class of Cement, Amount of Additives Used (If Other Than Class "A" Cement, Give Name and Type Additive Used) See Reverse Side		Cl. H - 8%CF-9-5#/Sx Hi Seal				
a) 1st Stage		Cl. H - 8% CF-9				
b) 2nd Stage						
c) 3rd Stage						
* Number of Sacks of Cement Used						
* a) 1st (Lead) Stage		160				
b) 2nd Stage		185				
c) 3rd Stage						
* Total Number of Cement Sacks		345				
* Slurry Density per Sack (Cement and Additives)						
* a) 1st (Lead) Stage		1.20				
b) 2nd Stage		1.06				
c) 3rd Stage						
* Slurry Volume Pumped (Cubic Ft.) (Item 14 x Item 15)						
* a) 1st (Lead) Stage		192				
b) 2nd Stage		196				
c) 3rd Stage						
* Total Slurry Volume Pumped (Cubic Ft.)		388				
** Calculated Annular Height of Cement Slurry behind Pipe (Ft.)		3735				
* Was cement circulated to ground surface (or bottom of cellar) outside casing? Yes or No		NO				

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
* Cementing Date						
* Size of Hole or Pipe Plugged (Inches)						
* Depth to Bottom of Tubing or Drill Pipe (Ft.)						
* Number of Sacks of Cement Used (each plug)						
* Slurry Volume Pumped (Cubic Ft.)						
** Calculated Top of Plug (Ft.)						
*** Measured Top of Plug (If tagged) (Ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF)

- OVER -

* Items must be completed by Operator. Items not so designated shall be completed by Cementing Company.

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

20791

FORM W-1
1/1/81

API Well No. 42 025-32033
Instructions (7a & b) on back side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

☐ Directional Well ☐ Sidetrack ☐ Amended Permit (Explain in Remarks)

RRC Permit Number, if previously assigned.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: [X] DRILL ☐ DEEPEN (Below Casing) ☐ DEEPEN (Within Casing) ☐ PLUG BACK ☐ RE-ENTER

7. RRC District: 2

8. County: Bee

1. Operator: EXXON CORPORATION 25791

4a. Lease Name (32 Spaces Maximum): Laura D. Thomson "B"

4b. RRC Lease or ID No. (assigned)

9. Well Number: 1 1 8

2. Address (including City and Zip Code): Wilson Tower, Corpus Christi, TX 78476 00111

5. Location (Sec., Blk., Survey): Garrett Roache (A-59)

10. Number of Contiguous Acres in Unitized Tract: 10,500

6. This well is to be located 8.7 miles NE Direction from Skidmore, TX Nearest Post Office or Town.

11. Distance from Proposed Location to Nearest Lease or Unit Line (ft.): 7175

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] NO ☐ (Instruction (2) on back side.)

12. Total Depth: 9400

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exac. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of completed, permitted or applied for, locations on this lease in same reservoir for which this permit is sought? OIL	GAS
Wildcat Above	9400	---	467-1200	40	40	NO	--	Regular [X] Rule 37 ☐	Oil or Gas	---	---
00004 001								Regular ☐ Rule 37 ☐			
								Regular ☐ Rule 37 ☐			
								Regular ☐ Rule 37 ☐			

Railroad Commission of Texas
AUG 22 1983
Austin, Texas

14. PERPENDICULAR LOCATION FROM TWO DESIGNATED LEASE LINES
A. Lease Lines: 7175' from N line & 8625' from W line
B. Survey Lines: 10,900' from SW Cor & 1550' from W line

15. Is this a pooled unit? YES ☐ (Attach P-12, certified plat, & list of pooled owners) NO [X]

16. Substandard Acreage YES ☐ (Attach W-1A) NO [X]

17. (a) Is this wellbore subject to SWR 36? Yes ☐ No [X]
(b) If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.

18. Do you anticipate future use of this wellbore to complete in any penetrated zone not listed in Column 13, for which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see Instruction #8. Yes ☐ No [X]

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS

Signature: G. F. Presson

Title: G. F. Presson, Proration Specialist

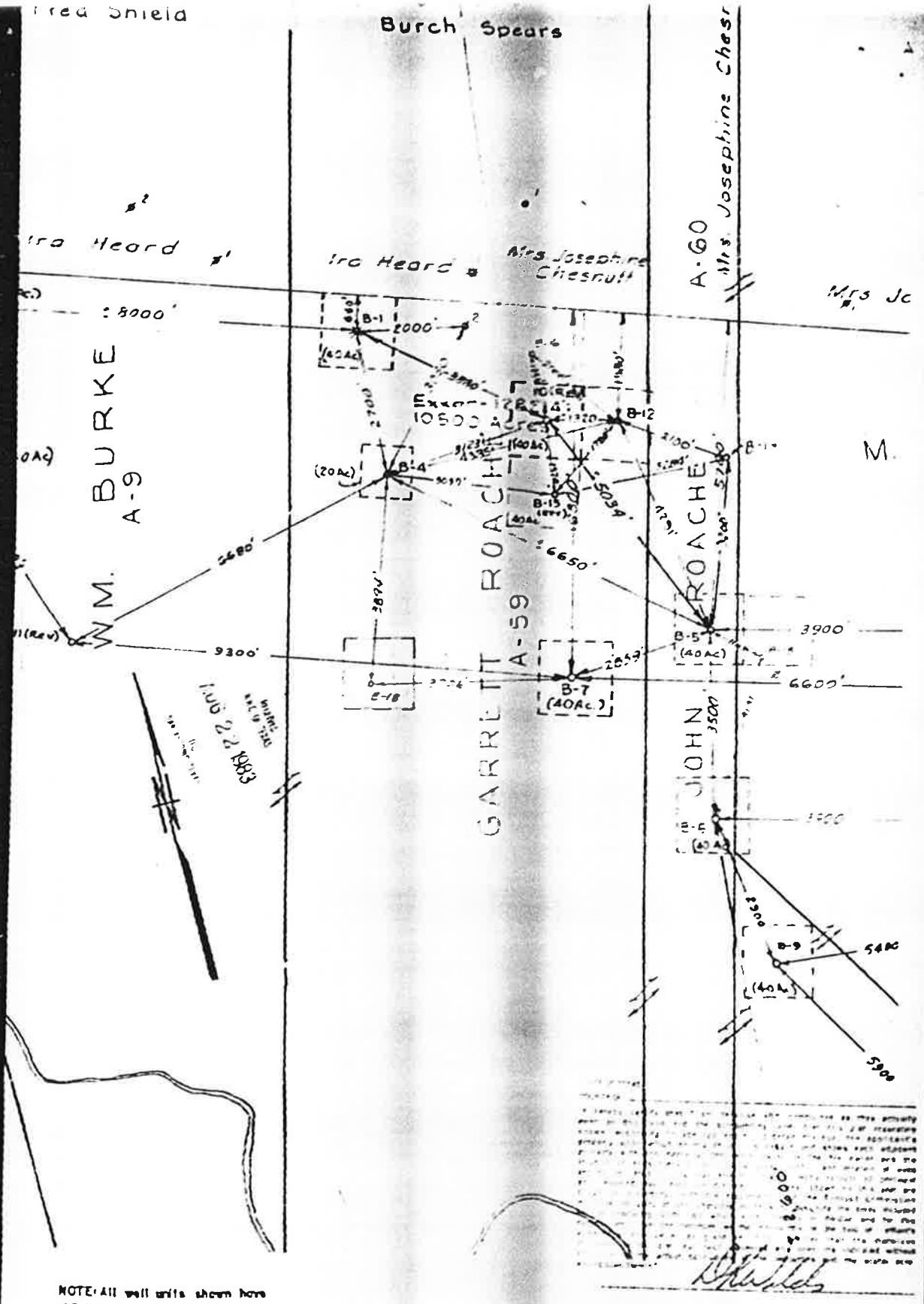
Date: August 18, 1983

Telephone Area Code: 512 887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

207811

025-32033



NOTE: All well units shown here 40 Acres unless otherwise noted.

Application for Location Well No. 18
Located 7175 ft. from N line
and 8425 ft. from W line of Lease
Located 10,950 ft. from SW corner
and 1550 ft. from W line of Survey
Distances are perpendicular to Lease Survey

EXXON CO. U.S.A.–S.T.D.–R.R. COMM.

LAURA D. THOMSON "G" LEASE NO. 12624

MOSS GULLY AREA BEE CO.

GARRETT ROACH (A-59) SURVEY 10,500 AC.

SCALE: 1" = 2[illegible]' DATE: 8/12/83

MAP ID #50

API# 42-025-32757
GAS WELL
PLUGGED

RECEIVED
MAY 22 2013
Oil & Gas Division
San Antonio, Texas

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

API No. (if available)	1. RRC District
42- 025-32757	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

		4. RRC Lease or ID Number: 161804
2. FIELD NAME (as per RRC records): Burkes Ridge (2040)	3. Lease Name: Thompson-Barrow Corp	5. Well Number: 2
6. OPERATOR: C & E Operating , Inc.	6a. Original Form W-1 filed in name of:	10. County: Bee
7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77498	6b. Any subsequent W-1's filed in name of:	11. Date Drilling Permit Issued: 11/05/96
8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 2810 feet from east line and 5893 feet from north line of the Thomson-Barrow Corp. lease.		12. Permit Number: 450360
9a. SECTION, BLOCK and SURVEY: Garrett Roach A-59	9b. Distance and direction from nearest town in this county: 14 miles NW from Woodsboro	13. Date Drilling Commenced: 11/19/97
16. Type Well (oil, gas, or dry): Gas; Total Depth: 5350; If multiple completion list all field names and oil lease or gas id no.'s; Gas ID or Oil Lease #; Oil - O Gas - G; Well #		14. Date Drilling Completed: 11/20/97
18. If gas, amt. of cond. on hand at time of plugging		15. Date Well Plugged: 03/07/13

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date 2013	3/7	3/7	3/7	3/7	3/7	3/7		
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2		
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2710	2300	1800	1300	750	14		
*22. Sacks of Cement Used (each plug)	25	12	20	30	15	5		
*23. Slurry Volume Pumped (cu. ft.)	26.5	12.72	21.2	31.8	15.9	5.3		
*24. Calculated Top of Plug (ft.)	2466	2161	1568	1050	650	3		
25. Measured Top of Plug (if tagged) (ft.)				1040				
*26. Slurry Wt. # / Gal.	16.4	16.4	16.4	16.4	16.4	16.4		
*27. Type Cement	H	H	H	H	H	H		

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	601	597	12¼
4 ½	10.5	5301	5297	7 7/8

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	5162	TO	5164	FROM	1304	TO	1308
FROM	2553	TO	2556	FROM		TO	
FROM	2358	TO	2360	FROM		TO	
FROM	1877	TO	1880	FROM		TO	
FROM	1775	TO	1777	FROM		TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Signature of Cementer or Authorized Representative

York Cement & Acidizing
Name of Cementing Company

RECEIVED
MAY 22 2013
RAILROAD COMMISSION OF TEXAS
AUSTIN, TEXAS

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Banning	Office Manager	05/20/13	PHONE 361	741-3600
REPRESENTATIVE OF COMPANY	TITLE	DATE	A/C	NUMBER

Chris 5/28/13
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission?	[X] Yes [ ] No	32. How was mud applied?	33. Mud Weight
		Circulated	9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R.		35. Have all abandoned wells on this lease been plugged according to R R C Rules?	[X] Yes [ ] No
	TOP	BOTTOM	36. If No, Explain	
5350 Depth of Deepest Fresh Water 1100	0	700		

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well

York Cmt & Acid 6511 FM 1464 PMB6 Richmond TX 77407

Date RRC District Office notified of plugging: 03/06/13

38. Name(s) and address(es) of surface owners of well site

Thomson-Barrow Corp.
6363 Woodway, Suite 630
Houston, Texas 77057

39. Was notice given before plugging to the above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42- 025-32757

7. RRC District No: 02

8 RRC Gas ID No: 161804

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

RECEIVED
R.R.C. OF TEXAS
FEB 10 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

1 FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (2040)

2 LEASE NAME: Thomson-Barrow Corp.

9 Well No: 2

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E OPerating, Inc.

RRC Operator No.

10 County of well site: Lee

4 ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478

11 Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5 Location (Section, Block, and Survey): Garrett Roache A-59

5b. Distance and direction to nearest town in this county: 9.0 miles NE from Skidmore

6 If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Burkes Ridge (VKSBG 4800)	157890	G	2

13 Pipe Line Connection: NGPL

14 Completion or recompletion date: 1/20/97

15 Any condensate on hand at time of workover or recompletion? [X] Yes [ ] No

16 Type of Electric or other Log Run: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 1/20/97

Gas Measurement Method (Check One): Orifice Meter [X] ▶ Flange Taps [X] Pipe Taps [ ] | Positive Choke [ ] | Orifice Vent Meter [ ] | Pitot Tube [ ] | Critical-flow Prover [ ]

Gas produced during test: 51 MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.067	.750	3587.12	315	61.0	80	0.9813	1.0042	1.0233	501
2	2.067	.750	3587.12	315	31.0	80	0.9813	1.0042	1.0233	357
3	2.067	.750	3587.12	315	13.0	80	0.9813	1.0042	1.0233	231
4	2.067	.750	3587.12	315	4.5	80	0.9813	1.0042	1.0233	136

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg Shut-in Temp.	Bottom Hole Temp.
.595	DRY Deg. API	DRY CF/Bbl	G_{mix} = .595	93.5 ^oF	112^oF @ 1879 (Depth)

$D_{eff}^{8/3}$ = 6.310 $\quad \sqrt{T_f}$ = $\sqrt{556}$ = 23.5797 $\quad \sqrt{P_w^2 - .005}$ = 33.4366

RECORD CODIFICATION

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{1118 \times 6.310}{23.5797} = 299$ $\quad \frac{\sqrt{GL}}{C}$ JUN 2 33.4366 / 299 = 0.1118

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. ^oF	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			750	75	563				
1	60	12/64	630	81	397	56.0	3.1	633	0.9953
2	60	10/64	650	80	423	39.9	1.6	652	0.9969
3	60	8/64	680	80	462	25.8	0.7	680	1.0000
4	60	6/64	710	79	504	15.2	0.2	710	1.0000

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		0.0379	1.1081	1.0429	782	612	
1	0.9977	0.0376	1.0976	1.0421	660	436	176
2	0.9985	0.0376	1.0991	1.0422	680	462	150
3	1.0000	0.0377	1.1012	1.0424	709	503	109
4	1.0000	0.0377	1.1033	1.0425	740	548	64

Angle of Slope
θ 45.0
n 1.0000

Absolute Open Flow
1790 MCF/DAY

WELL TESTER'S CERTIFICATION I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

Signature Well Tester: [signature] TARGET WELL SERVICES, INC. (Name of Company)

RRC Representative

Return to Records Retention

OPERATOR'S CERTIFICATION I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Signature: Operator's representative: [signature] Terry L. Dean — Title: President — Date: 2/5/97 — Tel: 281/265-6500 A/C Number

AS 025-32757

VALID PERMIT
PRODUCTION ALLOCATION
FEB 14 1997

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion:
New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18. Permit to Drill, Plug Back or Deepen — DATE: 11/05/96 — PERMIT NO.: 450360
Rule 37 Exception — CASE NO.:
Water Injection Permit — PERMIT NO.:
Salt Water Disposal Permit — PERMIT NO.:
Other — PERMIT NO.:

19. Notice of Intention to Drill this well was filed in Name of
C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 1/19/97 — Completed 1/20/97

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 5959 Feet From north Line and 2400 Feet from east Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.)

26. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒ No

27. Top of Pay: 1877 — 28. Total Depth: 5350 — 29. P. B. Depth: 2450

30. Surface Casing Determined by: Field Rules ☐ — Recommendation of T.D.W.R. Railroad Commission (Special) ☒ — Dt. of Letter: Dt. of Letter 2/15/96

31. Is well multiple completion? ☐ Yes ☒ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools | Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? ☐ Yes ☒ No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT, CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	601'		230sx A	12 1/4	surface	391
4 1/2"	10.5	5301'	2631	718sx A & H	7 7/8	surface	1086

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	1842	1842

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1877	To	1880
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
5162-64	Perforate
5080	CIBP + cmt
2553-56	Perforate
2450	CIBP

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Catahoula	3060		
Vicksburg	5162		

REMARKS

161804

Form W-1
Rev 3/93

▶ Return each W-1 with plat and applicable fee Make a check or money order payable to the State Treasurer of Texas

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

per Laurie

Purpose of filing (mark appropriate boxes): ☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☒ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- 025 32757
▶ Permit No. 450360
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report)	3. RRC Operator No.	4. RRC District No.	5. County of Well Site
C & E Operating, Inc.	120079	02	Bee

2. Address (including city and zip code)	6. Lease Name (32 spaces maximum)	7. RRC Lease/ID No.	8. Well No	9. Total Depth
13333 Southwest Freeway, Suite 105 Sugar Land, Texas 77478	Thomson-Barrow Corp.	157890	2	5350'

953635

10. Location
- Section _____ Block _____ Survey Garrette Roache Abstract No. A- 59
- This well is to be located 9 miles in a NE direction from Skidmore, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 2400 ft.

12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 2500') 4001	2500'	467/1200	40	40	No	N/A	G		1
Burkes Ridge (2040) 1355/850	1900'	467/1200	40	40	No	N/A	G		1

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit 2400' FEL & 5959' FNL
- Survey/Section 833' FEL & 10905' FSL

If a directional well, show also projected bottom-hole location:
- Lease/Unit
- Survey/Section

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes ☒ No ☐
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening, President
Signature Name and title of operator's representative

10/29/96 713/265-6500
Date: mo. day yr. Tel. Area Code Number

150 APP

• RRC Use Only •

202872 NOV 1 96

450360

025-32757

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- 025-32757
▶ Permit No. 450360
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. #2
7. RRC Lease/ID No.: 157890
8. Well No: 2
9. Total Depth: 5350'

10. Location
• Section ____ Block ____ Survey: Garrette Roache Abstract No. A- 59
• This well is to be located 9.0 miles in a NE direction from Skidmore which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 2909 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat Above 5000' 4001	5000'	467/1200	40	40	No	NA	G		1
Burkhollow (2600 Sand)	2600'	467/1200	40	40	No	NA	G		1
13600500		Code	A 1200						

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 5959' FNL & ~~2909' FEL~~ 2400 FEL
• Survey/Section 833' FEL & ~~10905' FSL (Aransas River)~~ FS (River) L

If a directional well, show also projected bottom-hole location:
• Lease/Unit ____
• Survey/Section ____

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening
Signature

Terry L. Boening, President
Name and title of operator's representative

07/12/96
Date: mo. day yr.

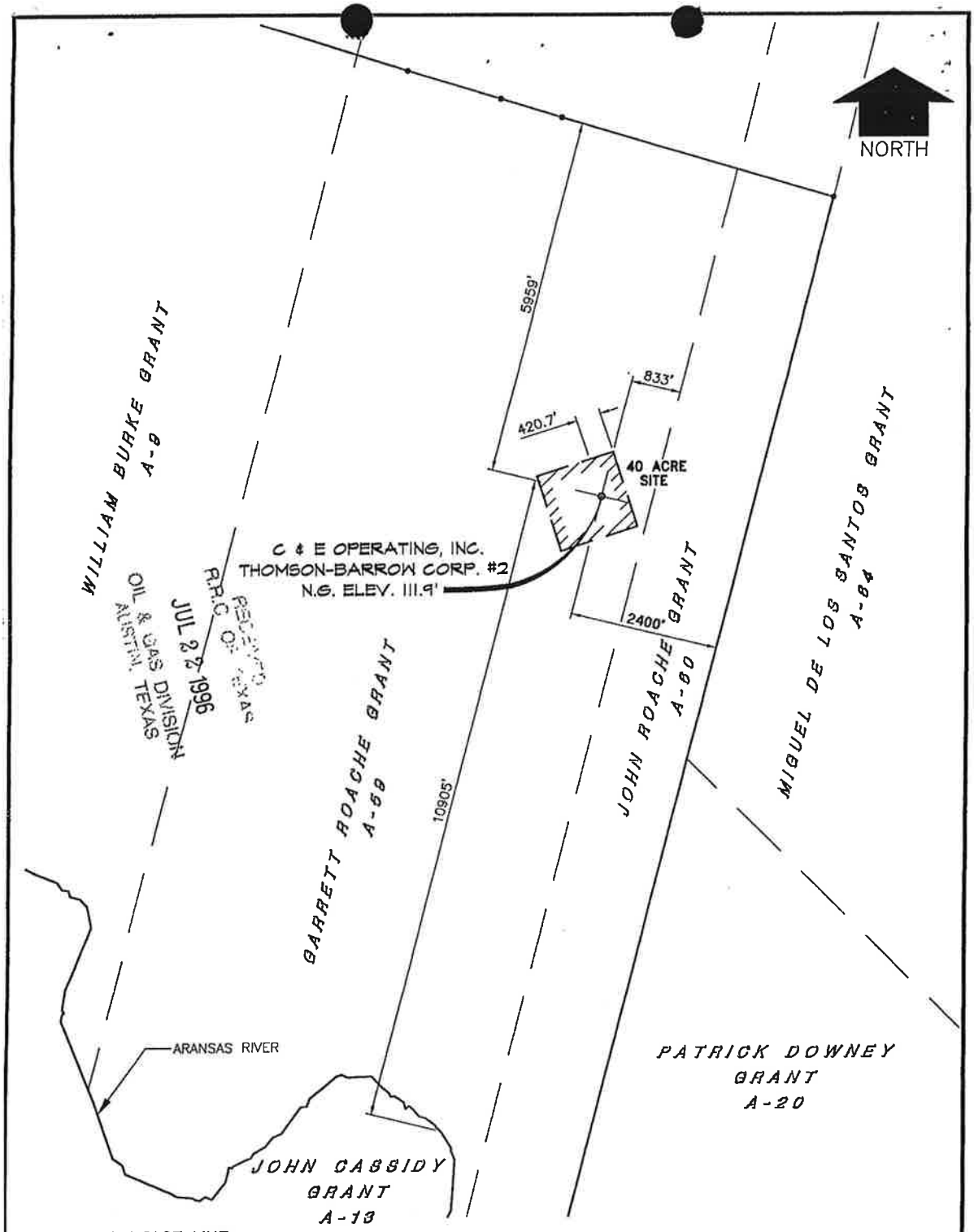
(713) 265-6500
Tel.: Area Code Number

• RRC Use Only •

450360

MAPPING

025-32757



TIES TO LEASE LINE
5959' FNL
2400 ' FEL

TIES TO SURVEY LINES
10905' FSL
833' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
10410'

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MARCH 4, 1996 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde 3-18-96

MICHAEL D. STRIDDE REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #2
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG. No. :	9673-500
SCALE :	1" = 2000'
DATE :	3/96
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office. Read Instructions on Back.

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42- 025-32757 Permit No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No: 120079
4. RRC District No: 02
5. County of Well Site: Bee
Rule 37 Case No.

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
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8. Well No.: 2
9. Total Depth: 5350'

10. Location
• Section ____ Block ____ Survey Garrette Roache Abstract No. A- 59
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11. Distance from proposed location to nearest lease or unit line: 2909 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat Above 5000'	5000'	467/1200	40	40	No	NA	G		1
Burkhollow (2600 Sand)	2600'	467/1200	40	40	No	NA	G		1

Perpendicular surface location from two nearest designated lines:
• Lease/Unit 5959' FNL & 2909' FEL
• Survey/Section 833' FEL & 10905' FSL (Aransas River)

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes ☐ (Attach Form P-12 and certified plat.) No ☒
24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ (Attach Form W-1A) No ☒
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ If not filed, explain in Remarks
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

Remarks

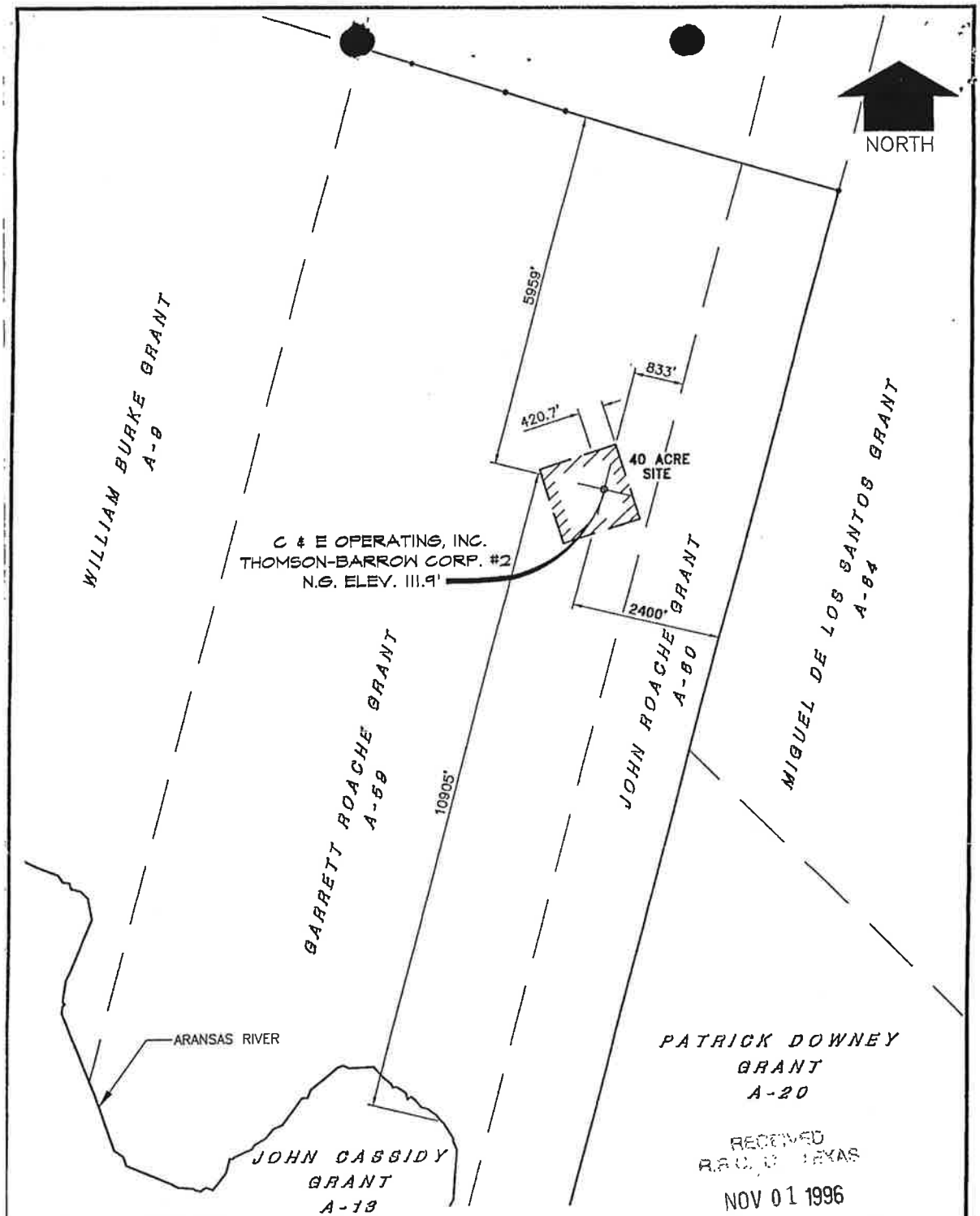
I certify that information stated in this application is true and complete, to the best of my knowledge.

JUL 22 1996

Signature: Terry L. Boening, President
Name and title of operator's representative

Date: 07/12/96 (mo day yr)
Tel.: (713) 265-6500 (Area Code Number)

• RRC Use Only •



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OIL & GAS DIVISION
AUSTIN, TEXAS

TIES TO LEASE LINE
5959' FNL
2400 ' FEL

TIES TO SURVEY LINES
10905' FSL
833' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
10410'

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MARCH 4, 1996 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde 3-18-96
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #2
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG No. :	9673-500
SCALE :	1" = 2000'
DATE :	3/96
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

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O.G.
SAN ANTONIO, TX

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42-025-32757

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7. RRC District No.: 02
8. RRC Gas ID No.: 157890

1 FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (Vicksburg 4800')
2. LEASE NAME: Thomson-Barrow Corp.
9 Well No.: 2
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
RRC Operator No.: 120079
10. County of well site: Bee
4. ADDRESS: 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
11. Purpose of filing: Initial Potential [X]; Retest [ ]; Reclass [ ]; Well record only (Explain in remarks) [ ]
5 Location (Section, Block, and Survey): Garrett Roach A-59
5b. Distance and direction to nearest town in this county.: 9.0 miles northeast of Skidmore
6. If operator has changed within last 60 days, name former operator:
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil—O Gas—G / WELL #:
13. Pipe Line Connection: Natural Gas Pipeline Co.
14. Completion or recompletion date: 04/08/96
15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No
16 Type of Electric or other Log Run.: IES

Section I — GAS MEASUREMENT DATA

Date of Test: 04/08/1996
Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ]; Positive Choke [X]; Orifice Vent Meter [ ]; Pitot Tube [ ]; Critical-flow Prover [ ]
Gas produced during test: 245 MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp ^oF	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		12/64	0.802	1615		89.0	0.9732	0.9837	1.1183	1387
2		10/64	0.553	1705		88.0	0.9741	0.9837	1.1237	1015
3		8/64	0.347	1790		88.0	0.9741	0.9837	1.1272	671
4		6/64	0.203	1805		88.0	0.9741	0.9837	1.1278	396

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp
0.620	Deg. API	CF/Bbl	G_{mix} = 0.620	125 ^oF	163 ^oF @ 5163 (Depth)

$D_{eff}^{8/3}$ = 6.307
$\sqrt{T_f}$ = $\sqrt{585.625}$ = 24.200
$\sqrt{GL}$ = $\sqrt{3201.060}$ = 56.578
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = 291.393
$\frac{\sqrt{GL}}{C}$ = = 0.194

RECORD CODIFICATION
JUN 20 1996

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. ^oF	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			1817	87.0	3301				
1	120	12/64	1615	89.0	2608	269.3	72.5	1637.3	0.9864
2	120	10/64	1705	88.0	2907	197.1	38.8	1716.4	0.9934
3	60	8/64	1790	88.0	3204	130.3	17.0	1794.7	0.9974
4	60	6/64	1805	88.0	3258	76.9	5.9	1806.6	0.9991

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.1026	1.2022	1.1313	2055	4223.0	
1	0.9932	0.1017	1.1956	1.1293	1849	3418.9	804.1
2	0.9967	0.1022	1.1988	1.1303	1940	3763.4	459.6
3	0.9987	0.1024	1.2008	1.1308	2029	4118.7	104.3
4	0.9995	0.1025	1.2011	1.1309	2043	4174.7	48.3

Angle of Slope
θ 63.50
n 0.4986
Absolute Open Flow
3171 MCF/DAY

WELL TESTER'S CERTIFICATION. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Gabriel Brown — DAWSON PRODUCTION SERVICES, INC.
Signature: Well Tester — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boening — President — 4/16/96 — Tel: 713/265-6500
Signature: Operator's representative — Title — Date — A/C Number

MAPPING

VALID PERMIT
PRODUCTION ALLOCATION
AUG 0 2 1996

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE: 02/15/96 — PERMIT NO.: 444801
Rule 37 Exception — CASE NO.:
Water Injection Permit — PERMIT NO.:
Salt Water Disposal Permit — PERMIT NO.:
Other — PERMIT NO.:

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 2

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 3/7/96 — Completed 4/8/96

23. Distance to nearest well, Same Lease & Reservoir: 1201'

Per Laurie 8/1/96

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 5959 Feet From North Line and ~~2909~~ 2400 Feet from East Line of the Thomson Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 112

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: 5162

28. Total Depth: 5350

29. P. B. Depth: 5260

30. Surface Casing Determined by: Field Rules [ ] — Recommendation of T.D.W.R. [ ] Dt. of Letter — Railroad Commission (Special) [X] Dt. of Letter 2/15/96

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drlg.

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8-5/8"	24	601'	---	230 sx A	12-1/4"	surface	391
4-1/2"	10.50	5301'	2631	718 sx A&H	7-7/8"	surface	1086
			per Operator HS 4-30-96				

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8"	5120	5120

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
5162	5164

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
5162-64	4 SPF w/1-11/16" Dynacap

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Catahoula	3060		
Vicksburg	5162		

REMARKS originally this W-2 missed the Validation section - It was pulled from C.R. 8/2/96 to be Validated -

Cementer Fill in shaded areas
Operator Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3 RRC District No	4. County of Well Site
C & E Operating	120079	02	Bee
5. Field Name (Wildcat or exactly as shown on RRC records)		**6. API No.**	**7. Drilling Permit No.**
Burkes Ridge (Vicksburg 4800')		42- 025-32757	444801
8. Lease Name	**9 Rule 37 Case No.**	**10. Oil Lease/Gas ID No**	**11 Well No**
Thomson-Barrow Corp.		157890	#2

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		03/08/96					
13. •Drilled hole size		12 1/4					
•Est. % wash or hole enlargement		25%					
14. Size of casing (in. O.D.)		8 5/8					
15. Top of liner (ft.)							
16. Setting depth (ft.)		601					
17 Number of centralizers used		5					
18 Hrs. waiting on cement before drill-out							
1st Slurry	19. API cement used: No of sacks ▶	120					
	Class ▶	A					
	Additives ▶	Poz, Gel, Salt					
2nd Slurry	No. of sacks ▶	110					
	Class ▶	A					
	Additives ▶	CaC12					
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	251					
	Height (ft.) ▶	608					
2nd	Volume (cu. ft.) ▶	140					
	Height (ft.) ▶	339					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	391					
	Height (ft.) ▶	947					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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O.G.
SAN ANTONIO, TX

T.N.R.C.C. LETTER DATED 2-14-96
Depth 1450', 850' ft.
13(A) Exception Dated 2-15-96
Surface Casing 550' ft.
D.V. @ ft.

22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Robert F. Garcia-Service Supervisor — Name and title of cementer's representative

BJ Services Co. — Cementing Company

Robert F Garcia — Signature

411-A Hartman Road, — Address

Victoria, TX 77905 — City, State, Zip Code

512/575-6446 — Tel.: Area Code Number

03/08/96 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative

President — Title

Terry L. Boening — Signature

13333 Southwest Freeway Suite 105, — Address

Sugar Land, Tx. 77478 — City, State, Zip Code

713/265-6500 — Tel.: Area Code Number

4/16/96 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry holes**, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.
Operator: Fill in other items.

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No	4. County of Well Site
C & E Operating	120079	2	Bee
5. Field Name (Wildcat or exactly as shown on RRC records)	**6. API No.**		**7. Drilling Permit No.**
Burkes Ridge (Vicksburg 4800')	42- 025-32757		444801
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
Thomson-Barrow Corp.		157890	#2

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date						3/17/96	3/17/96
13. •Drilled hole size						7 7/8	7 7/8
•Est % wash or hole enlargement						15%	15%
14. Size of casing (in. O.D.)						4 1/2	4 1/2
15. Top of liner (ft.)							
16. Setting depth (ft.)						2631	5302
17. Number of centralizers used						16	7
18. Hrs. waiting on cement before drill-out						N/A	N/A
1st Slurry	19. API cement used: No. of sacks ▶					208	50
	Class ▶					A	H
	Additives ▶					Poz,Gel,A5	R3, Poz,Gel,A5,
2nd Slurry	No. of sacks ▶					325	135
	Class ▶					A	H
	Additives ▶					--	A5,R3
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶					435	105
	Height (ft.) ▶					1910	461
2nd	Volume (cu. ft.) ▶					384	163
	Height (ft.) ▶					1686	711
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu ft.) ▶					819	267
	Height (ft.) ▶					3596	1172
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?						Yes	No

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R.R.C. OF TEXAS
APR 25 1996
O.G.
SAN ANTONIO, TX

22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Dennis R. Duderstadt-Serv.Supr. | BJ Services Co. | Dennis R Duderstadt

Name and title of cementer's representative | Cementing Company | Signature

411-A Hartman Road, | Victoria, TX 77905 | 512-575-6446 | 03/17/96

Address | City, State, Zip Code | Tel.: Area Code Number | Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening | President | Terry L. Boening

Typed or printed name of operator's representative | Title | Signature

13333 Southwest Freeway, Suite 105, Sugar Land, Tx. 77478 713/265-6500 4/16/96

Address | City, State, Zip Code | Tel.: Area Code Number | Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

MAP ID #51

API# 42-025-32758
GAS WELL
PLUGGED

NOV 0 1 2013
Oil & Gas Division
San Antonio, Texas

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. (if available) 42-025-32758

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 165320

2. FIELD NAME (as per RRC Records): Burkes Ridge (1600)

3. Lease Name: Thompson-Barrow Corp.

5. Well Number: 1-C

6. OPERATOR: C & E Operating, Inc.

6a. Original Form W-1 Filed in Name of:

10. County: Bee

7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 78409

6b. Any Subsequent W-1's Filed in Name of

11. Date Drilling Permit Issued: 02/15/1996

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 4900 Feet From north Line and 1843 Feet From east Line of the Thomson-Barrow Corp Lease

12. Permit Number: 467525

9a. SECTION, BLOCK, AND SURVEY: Garrett Roache A-59

9b. Distance and Direction From Nearest Town in this County: 9.1 miles NE from Skidmore

13. Date Drilling Commenced: 02/16/1996

16. Type Well (Oil, Gas, Dry): Total Depth: 5511'

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s: Burkes Ridge (2040) | GAS ID or OIL LEASE #: 165323 | Oil-G Gas (G) | WELL #: 1-T

14. Date Drilling Completed: 02/26/1996

18. If Gas, Amt. of Cond. on Hand at time of Plugging

15. Date Well Plugged: 08/30/2013

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	8-30-13	8-30-13	8-30-13	8-30-13				
20. Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½	4½				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1875	1190	750	13				
*22. Sacks of Cement Used (each plug)	35	20	20	3				
*23. Slurry Volume Pumped (cu. ft.)	37.1	21.2	21.2	3.18				
*24. Calculated Top of Plug (ft.)	1650	1050	550	Surface				
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	16.4	16.4	16.4	16.4				
*27. Type Cement	H	H	H	H				

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	612	608	12¼
4½	10.5	5393	5389	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	5136	TO	5142	FROM		TO	
FROM	2408	TO	2412	FROM		TO	
FROM	1875	TO	1880	FROM		TO	
FROM	1766	TO	1771	FROM		TO	
FROM		TO		FROM		TO	

RECEIVED
RRC OF TEXAS
DEC 09 2013
OIL & GAS WELL COMPLIA
AUSTIN, TX

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Randall Brown
Signature of Cementer or Authorized Representative

Raywell Services
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Fanning — REPRESENTATIVE OF COMPANY
Office Manager — TITLE
10/29/2013 — DATE
Phone 361 741-3600 — A/C NUMBER

Carol 11/18/13
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission	[X] Yes [ ] No	32. How was Mud Applied?	33. Mud Weight
		Circulate	10.0 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules?	[X] Yes [ ] No
5511	0	700	36. If NO, Explain	
Depth of Deepest Fresh Water 1100				

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well

Roywell Services, 200 Hwy 183, Refugio, TX 78377

Date RRC District Office notified of plugging 08/29/2013

38. Name(s) and Address(es) of Surface Owners of Well Site

Thomson-Barrow Corp.
6363 Woodway, Suite 630
Houston, Texas 77057

39. Was Notice Given Before Plugging to the Above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

RECEIVED
R.R.C. OF TEXAS
OCT 09 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Type or Print only

-483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42- 025-32758

7. RRC District No. 02

8. RRC Gas ID No. 165323

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (2040)

2. LEASE NAME: THOMSON BARROW CORP.

9. Well No. 1T

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.

RRC Operator No. 120079

10. County of well site: Bee

4. ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478

11. Purpose of filing
- Initial Potential [*]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): Garrett Raoche A-59

5b Distance and direction to nearest town in this county.: 9.1 miles NE from Skidmore

6 If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.
FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #

13. Pipe Line Connection: NGPL

14 Completion or recompletion date: 9/20/97

15. Any condensate on hand at time of workover or recompletion? [X] Yes [ ] No

16. Type of Electric or other Log Run.: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 9/20/97

Gas Measurement Method (Check One): Orifice Meter [ ] Flange Taps [ ] Pipe Taps [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 72 MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		12/64	0.802	750		80.0	0.9813	1.0351	1.0504	642
2		10/64	0.553	755		80.0	0.9813	1.0351	1.0507	446
3		9/64	0.444	765		80.0	0.9813	1.0351	1.0514	363
4		8/64	0.347	770		80.0	0.9813	1.0351	1.0517	285

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix} =	Avg. Shut-in Temp.	Bottom Hole Temp.
0.560			0.560	94 ^oF	113 ^oF @ 1878 (Depth)

$D_{eff}^{8/3}$ = 6.307

$\sqrt{T_f}$ = $\sqrt{556.500}$ = 23.590

$\sqrt{GL}$ = $\sqrt{1051.680}$ = 32.430

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 298.921 = $\frac{}{C}$ = 0.108

RECORDS CODIFICATION — Return to Records Retention — JUL 16 1998 R

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. ^oF	P_w^2 (Thousands)	P_f^2 and P_s^2 (Thousands)	$P_f^2 - P_s^2$ (Thousands)	P_1	P_w/P_1
Shut-In			785	75.0	616				
1	60	12/64	750	80.0	563	69.6	4.9	753.2	0.9957
2	60	10/64	755	80.0	570	48.4	2.3	756.5	0.9980
3	60	9/64	765	80.0	585	39.4	1.6	766.0	0.9987
4	60	8/64	770	80.0	593	30.9	1.0	770.6	0.9992

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0356	1.1033	1.0400	816	665.9	
1	0.9979	0.0354	1.0992	1.0396	783	613.2	52.6
2	0.9990	0.0354	1.0995	1.0397	787	618.7	47.2
3	0.9993	0.0354	1.1002	1.0397	796	634.3	31.5
4	0.9996	0.0354	1.1005	1.0397	801	642.0	23.9

Angle of Slope
θ 45.24
n 0.9917

Absolute Open Flow
7295 ..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

L.O. Van Ness — Target Well Services, Inc. — RRC Representative

Signature: Well Tester — Name of Company

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Beesing — President — 10/7/97 — Tel: 281/ 265-6500

Signature: Operator's representative — Title — Date — A/C Number

HS

025-32758

VALID PERMIT
PRODUCTION ALLOCATION 78

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18. Permit to Drill, Plug Back or Deepen — DATE 9/29/97 — PERMIT NO. 467525
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 2

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 9/18/97 Completed 9/20/97

23. Distance to nearest well, Same Lease & Reservoir: 1202'

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1843 Feet From East Line and 4900 Feet from North Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 114'

26. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☐ No

27. Top of Pay: 1875 — 28. Total Depth: 5511 — 29. P. B. Depth: 2370

30. Surface Casing Determined by: Field Rules ☐ — Recommendation of T.D.W.R. Railroad Commission (Special) ☒ — Dt. of Letter 2/15/97

31. Is well multiple completion? ☒ Yes ☐ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Burkes Ridge (1600)	165320	G	1-C
Burkes Ridge (2040)	165323	G	1-T

33. Intervals Drilled by: Rotary Tools | Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? ☐ Yes ☒ No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24.0	612		230 sx A	12 1/4	surface	391
4 1/2	10.50	5393	2559	865 sx H & A	7 7/8	surface	1212

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	1784	1784

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1875	To	1880
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
1766, -71, 1875- 80	Perf 4 SPF
2370, 5060	CIBP CIBP 20' cement
2408-12	Perf
5136-42	Perf

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Catahoula	3070		
Vicksburg	5136		

REMARKS

RECEIVED R.R.C. OF TEXAS OCT 09 1997 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Type or print only

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

163-047

API No. 42- 025-32758

7. RRC District No. 02

8. RRC Gas ID No. 165320

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (1600)

2. LEASE NAME: THOMSON BARROW CORP.

9. Well No.: 1C

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.

RRC Operator No.: 120079

10. County of well site: Bee

4. ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478

11. Purpose of filing
- Initial Potential [*]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): Garrett Roache A-59

5b. Distance and direction to nearest town in this county: 9.1 miles NE from skidmore

6. If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Burkhollow (2600 sand)	164202	G	1

13. Pipe Line Connection: NGPL

14. Completion or recompletion date: 9/20/97

15. Any condensate on hand at time of workover or recompletion? [XX] Yes [ ] No

16. Type of Electric or other Log Run: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 9/20/97

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 63 MCF

Run No.	Line Size	Orif or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		14/64	1.116	575		80.0	0.9813	1.0351	1.0386	677
2		10/64	0.553	590		80.0	0.9813	1.0351	1.0396	345
3		9/64	0.444	593		80.0	0.9813	1.0351	1.0398	278
4		8/64	0.347	596		80.0	0.9813	1.0351	1.0400	218

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix} =	Avg. Shut-in Temp.	Bottom Hole Temp.
0.560			0.560	93 °F	110 °F @ 1769 (Depth)

$D_{eff}^{8/3}$ = 17.981

$\sqrt{T_f} = \sqrt{555.000}$ = 23.558

$\sqrt{G_L} = \sqrt{990.640}$ = 31.474

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = 853.327

$\frac{\sqrt{G_L}}{C}$ = = 0.037

Return to Records Retention

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			605	75.0	366				
1	60	14/64	575	80.0	331	25.0	0.6	575.5	0.9991
2	60	10/64	590	80.0	348	12.7	0.2	590.1	0.9998
3	60	9/64	593	80.0	352	10.3	0.1	593.1	0.9999
4	60	8/64	596	80.0	355	8.0	0.1	596.1	0.9999

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0336	1.0801	1.0370	627	393.1	
1	0.9995	0.0334	1.0768	1.0367	597	356.0	37.1
2	0.9999	0.0335	1.0778	1.0367	612	374.3	18.8
3	0.9999	0.0335	1.0780	1.0367	615	378.1	15.1
4	1.0000	0.0335	1.0782	1.0367	618	381.9	11.3

Angle of Slope
θ ...46.19.....
n ...0.9594.....

Absolute Open Flow
6456..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

T. E. Van Hess — Signature: Well Tester

Target Well Services, Inc. — Name of Company

RECORD CONFIRMATION — RRC Representative

DEC 23 1997

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boersig — Signature: Operator's representative

President — Title

10/6/97 — Date

Tel: 281/ 265-6500 — A/C Number

143

025-32758

VALID PERMIT
PRODUCTION ALLOCATION XD

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

OCT 28 1997

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18. Permit to Drill, Plug Back or Deepen — DATE 9/29/97 — PERMIT NO. 467525
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 9/18/97 — Completed 9/20/97

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1843 Feet From East Line and 4900 Feet from North Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 114'

26. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒ No

27. Top of Pay: 1766 — 28. Total Depth: 5511 — 29. P. B. Depth: 2370

30. Surface Casing Determined by: Field Rules ☐ — Recommendation of T.D.W.R. Railroad Commission (Special) ☒ — Dt. of Letter 2/15/97

31. Is well multiple completion? ☒ Yes ☐ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Burkes Ridge (1600)	165320	G	1-T
Burkes Ridhe (2040)	165323	G	1-C

33. Intervals Drilled by: Rotary Tools XX — Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? ☐ Yes ☒ No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24.0	612		230 sx A	12 1/4	surface	391
4 1/2	10.50	5393	2559	865 sx H & A	7 7/8	surface	1212

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	1784	1784

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1766	To	71
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
1766- 71, 1875-80	Perf 4 SPF
2370, 5060	CIBP
2408-12	Perf
5136- 42	Perf

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Catahoula	3070		
Vicksburg	5136		

REMARKS

▶ Return each W-1 with plat and applicable fee. Make a check, or money order payable to the State Treasurer of Texas

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- 025-32758
▶ Permit No. ~~450555~~ 467525 Dc
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc. 9-12-97
2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105
953535
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 1
9. Total Depth: 5511'
10. Location
• Section _____ Block _____ Survey Garrett Roache Abstract No. A- 59
• This well is to be located 9.1 miles in a NE direction from Skidmore, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 1834 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

Granted 9-29-97

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 2400') 4001	2400	467/1200	40	40	No	NA	G		1
Burkes Ridge (1600) 13551600	1600	467/1200	40	40	No	NA	G		1
Burkes Ridge (2040) 13551850	2000	467/1200	40	40	No	1202'	G		2

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1843 FEL + 4900 FNL per Bina
• Survey/Section 13658 ~~FSL (AVR)~~ + 194 FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section Code A 1200

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒
24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes ☒ No ☐
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

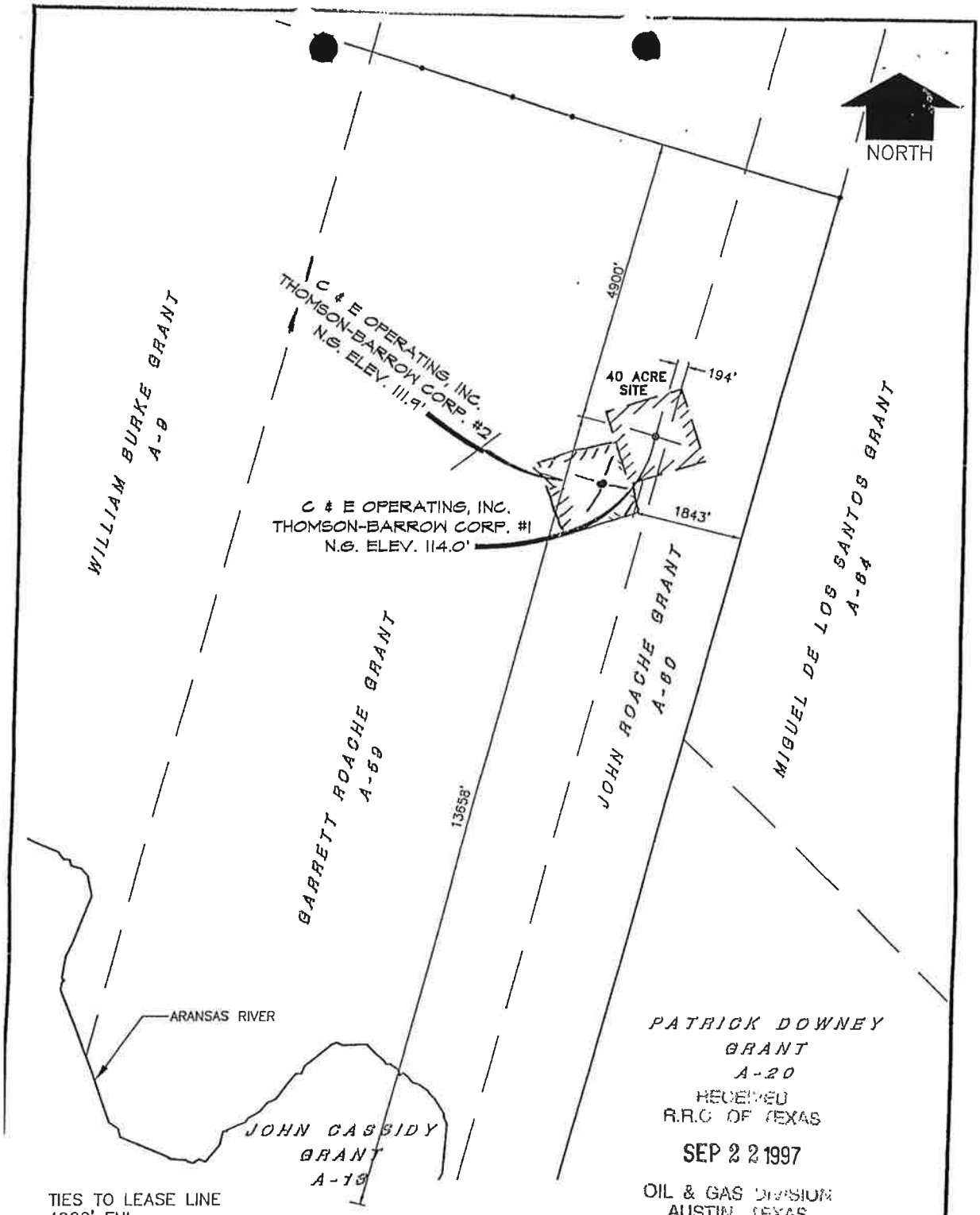
Terry L. Boening — Terry L. Boening/ President
Signature — Name and title of operator's representative

Date: 9 (mo.) 11 (day) 97 (yr.) Tel.: 281/ 265-6500 (Area Code Number)

150 App 50 Exp • RRC Use Only •
200651 SEP 1297
467525

025-32758

MAPPING



TIES TO LEASE LINE
4900' FNL
1843' FEL

TIES TO SURVEY LINES
13658' FSL
194' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
11510'

RECEIVED
R.R.C. OF TEXAS
SEP 22 1997
OIL & GAS DIVISION
AUSTIN, TEXAS

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON JANUARY 26, 1996 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde 3-18-96
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO 3589 — DATE

REVISED 3/11/96

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #1
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG No : 0673-500
SCALE : 1" = 2000'
D : 2/96
DWN BY : JT

GOVIND ASSOCIATES, INC.
O. , TX. • CONSULTING ENGINEERS • (512)289-1385

Type or print only

483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

API No. 42-025-32758

7. RRC District No: 02

8. RRC Gas ID No.: 116202

9. Well No.: 1

RECEIVED R.C. OF TEXAS MAR 24 1997 OIL & GAS DIVISION SAN ANTONIO, TEXAS

1. FIELD NAME (as per RRC Records or Wildcat): Burkhollow (9600 Sand)

2. LEASE NAME: Thomson-Barrow Corp.

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.

RRC Operator No.: 120079

10. County of well site: Bee

4. ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478

11. Purpose of filing: Initial Potential [X]; Retest [ ]; Reclass [ ]; Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): Garrett Roache A-59

5b. Distance and direction to nearest town in this county.: 9.10 miles NE from skidmore

6. If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
PP.			
Burkes Ridge (VKSBG 4800)	158301	G	1

13. Pipe Line Connection: Natural Gas Pipeline

14. Completion or recompletion date: 3/6/97

15. Any condensate on hand at time of workover or recompletion? [X] Yes [ ] No

16. Type of Electric or other Log Run.: IES

per Terry Boening

Section I — GAS MEASUREMENT DATA

Date of Test: 3/7/97

Gas Measurement Method (Check One): Orifice Meter [X] ▶ Flange Taps [X] Pipe Taps [ ]; Positive Choke [ ]; Orifice Vent Meter [ ]; Pitot Tube [ ]; Critical-flow Prover [ ]

Gas produced during test: 60 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.067	.625	2470.89	515	42.0	80	.9813	1.0042	1.0387	372
2	2.067	.625	2470.89	515	27.0	80	.9813	1.0042	1.0387	298
3	2.067	.625	2470.89	515	16.5	80	.9813	1.0042	1.0387	233
4	2.067	.625	2470.89	515	8.5	80	.9813	1.0042	1.0387	167

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp	Bottom Hole Temp.
.595	DRY Deg. API	DRY CF/Bbl	G_{mix} = .595	98 °F	120 °F @ 2410 (Depth)

$D_{eff}^{8/3}$ = 6.31

$\sqrt{T_f} = \sqrt{560} = 23.66$

$\sqrt{GL} = \sqrt{1434.0} = 37.87$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{(1118)(6.31)}{23.66} = 298$

$\frac{\sqrt{GL}}{C} = \frac{37.87}{298} = .1271$

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			935	75	874				
1	120	9/64	840	80	706	47.3	2.2	842	.9976
2	60	8/64	865	80	748	37.9	1.4	866	.9988
3	60	7/64	895	80	801	29.6	.9	895	1.0000
4	60	6/64	905	80	819	21.2	.4	905	1.0000

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		.0482	1.1318	1.0561	987	974	
1	.9988	.0479	1.1230	1.0553	889	790	184
2	.9994	.0480	1.1247	1.0555	914	835	139
3	1.0000	.0480	1.1267	1.0556	945	893	81
4	1.0000	.0480	1.1273	1.0556	955	912	62

Angle of Slope
θ 53.5
n .740

Absolute Open Flow: 128.0 MCF/DAY

Return to Records Retention

WELL TESTER'S CERTIFICATION. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the name of the flow string were furnished by the operator of the well

RECORD SUBMISSION OCT 23 1997 MAR 27 1997 AUSTIN, TEXAS

Signature: Well Tester — Target Well Services, Inc. — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION. I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boening — Terry L. Boening — President — 3/19/97 — Tel: 281 265-6500

Signature: Operator's representative — Title — Date — A/C Number

MAPPING

025 32758

HS

PB

VALID PERMIT
PRODUCTION ALLOCATION

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

AUG 08 1997 DATE

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18. Permit to Drill, Plug Back or Deepen: 2/24/97 — PERMIT NO. 458995
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 3/4/97 — Completed 3/6/97

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1843' Feet From East Line and 4900 Feet from North Line of the Thomson-Barrow Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 114'

26. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒ No

27. Top of Pay: 2408

28. Total Depth: 5511'

29. P. B. Depth: 5050'

30. Surface Casing Determined by: Field Rules ☐ — Recommendation of T.D.W.R. Railroad Commission (Special) ☒ — Dt. of Letter 2/15/96

31. Is well multiple completion? ☐ Yes ☒ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drlg.

35. Is Cementing Affidavit Attached? ☐ Yes ☒ No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	612'	-	230sx A	12 1/4	surface	391
4 1/2"	10.5	5393'	2559'	865sx H & A	7 7/8	surface	1212

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	2349'	2349'

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	2408	To	2412
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
5136-42'	Perforate 4SPF
5050'	CIBP & cement
2408-12'	Perforate 4SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Catahoula	3070'		
Vicksburg	5136'		

REMARKS

Form W-1
Rev 3/93

▶ Return each W-1 with plat and applicable fee Make a check or money order payable to the State Treasurer of Texas

143

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- 025-32758
▶ Permit No. 458995
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar LAnd, Texas 77478
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No
8. Well No.: 1
9. Total Depth: 5511

10. Location
• Section _____ Block _____ Survey Garrett Roache Abstract No. A- 59
• This well is to be located 9.1 miles in a NE direction from Skidmore, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 1834
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 5100') 4001	5100	467/1200	40	40	NO	NA	G		1
Burkhollow (2600 Sand)	2600	467/1200	40	40	NO	NA	G		1
13600500									

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 4900' FNL & 1843' FEL
• Survey/Section 13658' FSL (River) & 194' FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

RECEIVED R.R.C. OF TEXAS FEB 21 1997 OIL & GAS DIVISION AUSTIN, TEXAS

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes ☒ No ☐
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: Terry L. Boening — Name and title of operator's representative: President

Date: 2 mo. 20 day 97 yr. Tel.: 281 Area Code 265-6500 Number

• RRC Use Only •

207718 FEB 21 97

458995

025-32758

CHARLES R. MATTHEWS, CHAIRMAN
BARRY WILLIAMSON, COMMISSIONER
CAROLE KEETON RYLANDER, COMMISSIONER

DAVID E. SCHIECK
DIRECTOR, OIL AND GAS DIVISION
C. DEWAYNE CRAVENS
ASSISTANT DIRECTOR--PERMITTING

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

July 23, 1997

C & E OPERATING INC
ATTN TERRY BOENING
13333 SW FWY #105
SUGAR LAND TX 77478

Burkhollow
(9600 Sand)

RE: Thomson-Barrow Corp. Lease
Well No. 1
Bee County

Please send complete evidence showing that your well is a discovery in a separate reservoir if you want it considered for discovery allowable and new field designation (see Statewide Rule 41). IN ADDITION TO THE ITEMS RECEIVED, FURTHER INFORMATION IS REQUIRED.

Form P-7 must be filed.

Area map showing oil, gas, and abandoned wells within a 2 1/2 mile radius from the subject well. Producing interval of surrounding wells must be shown. All nearby fields, past or present, must be identified by field name, producing formations, and average depth. Total depth must be shown on all dry holes which are used as evidence of separation.

If confidentiality of log is desired, submit at least one curve (SP or gamma ray) from a log section showing the entire proposed designated interval (from items 13 and 14 on the Form P-7).

Please submit this information so that we may further process your application. This information should be sent to the undersigned in our Austin Office, phone 512-463-6701. ABSENT A RESPONSE WITHIN 14 DAYS OF THE DATE OF THIS LETTER, AN ALLOWABLE WILL NOT BE ASSIGNED AND POSSIBLE PENALTY ACTION MAY BE INITIATED.

Yours very truly,

Cathy Garrison

Cathy Garrison
Engineering Unit, Permitting Services

cc: File (2)
02-GAS

RECEIVED
R.R.C. OF TEXAS
APR 25 1996
O.G.
SAN ANTONIO, TX

Type or print only

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42- 025-32758

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (Vicksburg 4800')	2. LEASE NAME: Thomson-Barrow Corp.
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.	RRC Operator No.: 120079
4. ADDRESS: 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478	
5. Location (Section, Block, and Survey): Garrett Roache A-59	5b. Distance and direction to nearest town in this county.: 9.1 miles northeast of Skidmore
6. If operator has changed within last 60 days, name former operator	12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil—O Gas—G / WELL #
13. Pipe Line Connection: Natural Gas Pipeline	
14. Completion or recompletion date: 4/8/96	15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☒ No
16. Type of Electric or other Log Run.: Induction	

7. RRC District No.: 02
8. RRC Gas ID No.: 158301
9. Well No.: 1
10. County of well site: Bee
11. Purpose of filing
- Initial Potential ☒
- Retest ☐
- Reclass ☐
- Well record only (Explain in remarks) ☐

Section I — GAS MEASUREMENT DATA

Date of Test: 04/08/1996
Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ | Positive Choke ☒ | Orifice Vent Meter ☐ | Pitot Tube ☐ | Critical-flow Prover ☐
Gas produced during test: 262 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp ^oF	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		12/64	0.802	1775		88.0	0.9741	0.9837	1.1267	1537
2		10/64	0.553	1795		88.0	0.9741	0.9837	1.1274	1072
3		8/64	0.347	1805		88.0	0.9741	0.9837	1.1278	677
4		6/64	0.203	1815		88.0	0.9741	0.9837	1.1282	398

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.620	Deg. API	CF/Bbl	G_{mix} = 0.620	124 °F	161 °F @ 5139 (Depth)

$D_{eff}^{8/3}$ = 6.307 ; $\sqrt{T_f}$ = $\sqrt{584.625}$ = 24.179 ; $\sqrt{GL}$ = $\sqrt{3186.180}$ = 56.446

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = 291.643 ; $\frac{\sqrt{GL}}{C}$ RECORD CONFIRMATION = 0.194

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	P_s^2 (Thousands)	P_1	P_w/P_1
Shut-In			1824	87.0	3327				
1	120	12/64	1775	89.0	3151	297.5	88.5	1799.8	0.9862
2	120	10/64	1795	88.0	3222	207.5	43.0	1807.0	0.9934
3	60	8/64	1805	88.0	3258	131.0	17.2	1809.7	0.9974
4	60	6/64	1815	88.0	3294	77.0	5.9	1815.6	0.9991

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.1023	1.2043	1.1311	2063	4256.0	
1	0.9931	0.1014	1.2015	1.1296	2033	4132.9	123.1
2	0.9967	0.1019	1.2028	1.1303	2042	4171.6	84.3
3	0.9987	0.1021	1.2030	1.1306	2046	4186.8	69.2
4	0.9996	0.1021	1.2032	1.1308	2054	4219.8	36.2

Angle of Slope
θ 45.00
n 1.0000
Absolute Open Flow
53149 ..... MCF/DAY

JUL 24 1996

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Daniel Brown — Signature. Well Tester
DAWSON PRODUCTION SERVICES, INC. — Name of Company
RRC Representative

Return to Central Records

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boening — Signature, Operator's representative
Terry L. Boening, President — Title
4/16/96 — Date
Tel: 713/265-6500 — A/C Number

#5
025-32758 MAPPING

VALID PERMIT
PRODUCTION ALLOCATION

SECTION III · DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

MAY 14 1996

17. Type of Completion: New Well [x] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen 2/15/96 PERMIT NO. 444800
Rule 37 Exception CASE NO.
Water Injection Permit PERMIT NO.
Salt Water Disposal Permit PERMIT NO.
Other PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 2

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 2/17/96 Completed 4/8/96

23. Distance to nearest well, Same Lease & Reservoir: 1201'

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1843 Feet From North Line and 4900 Feet from East Line of the Thomson Barrow Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 114'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [x] No

27. Top of Pay: 5136' | 28. Total Depth: 5511' | 29. P. B. Depth: 5348'

30. Surface Casing Determined by: Field Rules [ ] | Recommendation of T.D.W.R. Railroad Commission (Special) [x] | Dt. of Letter 2/15/96

31. Is well multiple completion? [ ] Yes [x] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X | Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drlg.

35. Is Cementing Affidavit Attached? [x] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8-5/8"	24	612'	-	230 sx A	12-1/4"	surface	391
4-1/2"	10.5	5393'	2559'	865 sx H &A	7-7/8"	surface	1212

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8"	5097	5097

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	5136	To	5142
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
5136-42	4 SPF w/1-11/16" Dynacap

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Catahoula	3070		
Vicksburg	5136		

REMARKS

Cementer Fill in shaded areas.
Operator: Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
C & E Operating Inc.	120079	02	Bee
5. Field Name (Wildcat or exactly as shown on RRC records)	**6. API No.**		**7. Drilling Permit No.**
Burkes Ridge (Vicksburg 4800')	42- 025-32758		444800
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No**
Thomson-Barrow Corp.		15830	#1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		02/17/96					
13. •Drilled hole size		12 1/4					
•Est. % wash or hole enlargement		25%					
14. Size of casing (in. O.D.)		8 5/8					
15. Top of liner (ft.)							
16. Setting depth (ft.)		612					
17. Number of centralizers used		5					
18. Hrs. waiting on cement before drill-out		20					
1st Slurry	19. API cement used: No. of sacks ▶	120					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt					
2nd Slurry	No. of sacks ▶	110					
	Class ▶	A					
	Additives ▶	CaCl2					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	251					
	Height (ft.) ▶	547					
2nd	Volume (cu. ft.) ▶	140					
	Height (ft.) ▶	305					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	391					
	Height (ft.) ▶	852					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

RECEIVED
R.R.C. OF TEXAS
APR 25 1996
O.G.
SAN ANTONIO, TX

T.N.R.C.C. LETTER DATED 11-15-95
Depth 4800' ft.
13(A) Exception Dated 2-15-96
Surface Casing 550' ft.
D.V. @ ft.

22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Johnny Wilkerson-Cementer — Name and title of cementer's representative

BJ Services Company — Cementing Company

Johnny Wilkerson — Signature

411-A Hartman Road, Victoria, TX 77905 — Address, City, State, Zip Code

512/575-6446 — Tel.: Area Code Number

02/17/96 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative

President — Title

Terry L. Boening — Signature

13333 Southwest Freeway, Suite 105, Sugar Land, Tx. 77478 — Address, City, State, Zip Code

713/265-6500 — Tel.: Area Code Number

4/16/96 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form W-15, **in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.
Operator Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No	3. RRC District No.	4. County of Well Site
C & E Operating	120079	02	Bee
5. Field Name (Wildcat or exactly as shown on RRC records)	**6. API No.**	**7. Drilling Permit No**	
Burkes Ridge (Vicksburg 4800')	42- 025-32758	444800	
8. Lease Name	**9. Rule 37 Case No**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
Thomson-Barrow Corp.		158301	#1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date						02/25/96	02/25/96
13. •Drilled hole size						7 7/8	7 7/8
•Est. % wash or hole enlargement						15%	
14. Size of casing (in. O.D.)						4 12/	4 1/2
15. Top of liner (ft.)							
16. Setting depth (ft.)						2559	5393
17. Number of centralizers used						9	10
18. Hrs. waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks ▶					110	60
	Class ▶					A	H
	Additives ▶					Salt Poz,Gel,	Salt, Gel,Poz
2nd Slurry	No. of sacks ▶					495	200
	Class ▶					A	H
	Additives ▶					–	R-3, Gel,Poz,Salt,
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶					245	125
	Height (ft.) ▶					1075	549
2nd	Volume (cu. ft.) ▶					584	258
	Height (ft.) ▶					2564	1132
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶					829	383
	Height (ft.) ▶					3639	1681
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?						YES	NO

RECEIVED
R.R.C. OF TEXAS
APR 25 1996
O.G.
SAN ANTONIO, TX

22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Dennis R. Duderstadt-Cementer | BJ Services Company | Dennis R Duderstadt

Name and title of cementer's representative | Cementing Company | Signature

411-A Hartman Road, Victoria, TX 77905 | 512/575-6446 | 02/25/96

Address, City, State, Zip Code | Tel.: Area Code Number | Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening | President | Terry L. Boening

Typed or printed name of operator's representative | Title | Signature

13333 Southwest Freeway, Suite 105, Sugar Land, Tx. 77478 713/265-6500 | 4/16/96

Address, City, State, Zip Code | Tel.: Area Code Number | Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, **in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Form W-1
Rev 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

162 ▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32758
▶ Permit No. 444800
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc. dlc 2-14-95
3. RRC Operator No.: 120079
4. RRC District No.: 2
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, TX 77478
953535

6. Lease Name (32 spaces maximum): Thomson - Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 1
9. Total Depth: 5500'

10. Location
• Section ____ Block ____ Survey Garrett Roach ~~Grant~~ Abstract No. A-59
• This well is to be located 14 miles in a NW direction from Woodsboro, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 1843 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

Granted 2/15/96

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 5500')	5400	467/1200	40	40	No	1350 ~~NA~~	O/G	12	21
4001									

Code A 1200 Dec 8 or

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1843' FEL & 4900' FNL
• Survey/Section 194' FEL & ~~4900' FNL~~ 16100 FS(River)L

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening — Signature
Terry L. Boening President — Name and title of operator's representative
2-13-96 — Date mo. day yr.
713-265-6500 — Tel.: Area Code Number

150 App
50 Exp
207134 FEB 14 96
200

• RRC Use Only •

444800

025-32758

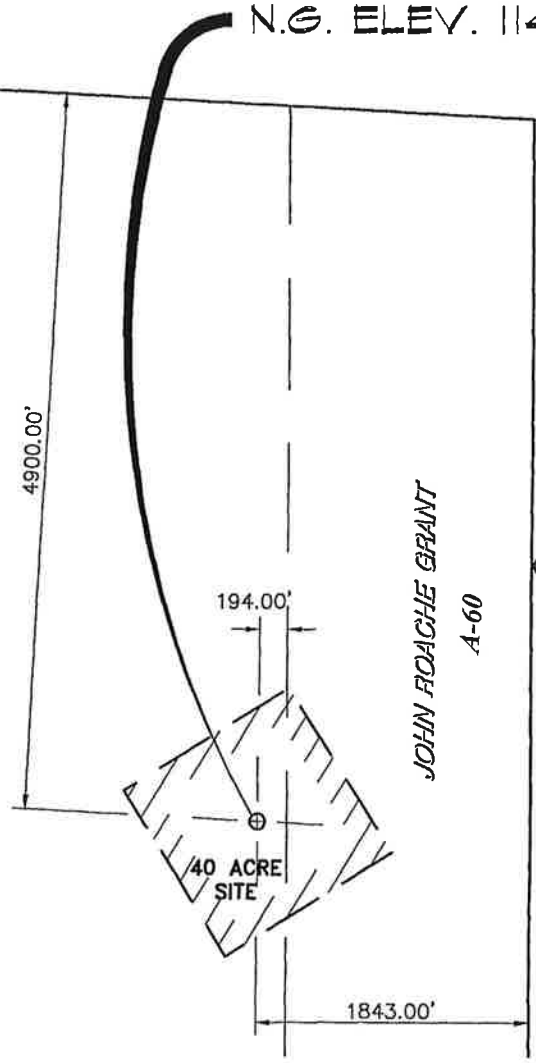
MAPPING

JOSEPHINE CHESNUTT

NORTH

MRS. GEORGIE HEARD

C & E OPERATING, INC.
THOMSON-BARROW CORP. #1
N.G. ELEV. 114.0'



RECEIVED
R.R.C. OF TEXAS
FEB 14 1996
OIL & GAS DIVISION
AUSTIN, TEXAS

TIES TO LEASE LINE
4900' FNL
1843' FEL

TIES TO SURVEY LINES
4900' FNL
194' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON JANUARY 26, 1996 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
SURVEYOR

Michael D. Stridde 2-9-96

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #1
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG. NO.	9673-500
SCALE :	1" = 1000'
DATE :	2/96
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes): ☐ Drill ☒ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☒ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42- 025-32758 Permit No. 444800 Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
OL 953535

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No:
8. Well No: 1
9. Total Depth: 5511'

10. Location
• Section ____ Block ____ Survey Garrett Roache Abstract No. A- 59
• This well is to be located 9.1 miles in a northeast direction from Skidmore which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 1843 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	21. GAS
Burkes Ridge (Vicksburg 4800')	5126'	467/1200	40	40	No	1201	G		2
3551 500					OC				
					OL				

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 4900' FNL & 1843' FEL
• Survey/Section 13658' FSL (Aransas River) & 194' FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit ____
• Survey/Section ____

23. Is this a pooled unit? FOLDER 2 L
Yes ☒ ▶ (Attach Form P-12 and certified plat.) No ☐

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

Remarks
1) New survey was done to correct distance to Aransas River
2) Amended Field Name from Wildcat to Burkes Ridge (Vicksburg 4800')

I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: Terry L. Boening Name and title of operator's representative: Terry L. Boening, President

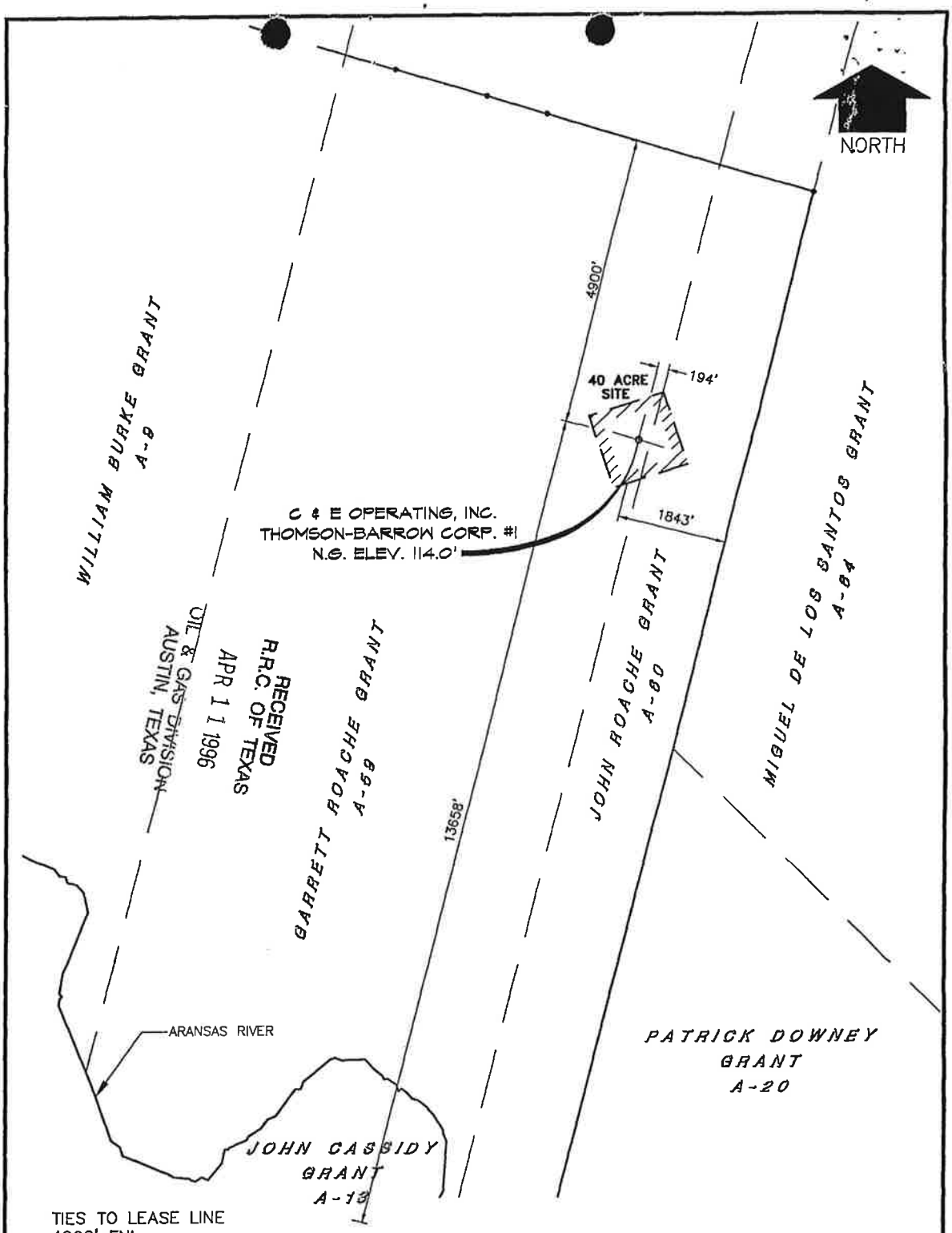
Date: 04/10/96 (mo. day yr.) Tel: 713/265-6500 (Area Code Number)

150 60 exp 200
209881 APR 1196

• RRC Use Only •
444800

025-32758

APPING



TIES TO LEASE LINE
4900' FNL
1843' FEL

TIES TO SURVEY LINES
13658' FSL
194' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
11510'

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON JANUARY 26, 1996 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

3-18-96
DATE

REVISED 3/11/96

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #1
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG. No. :	9673-500
SCALE :	1" = 2000'
DATE :	2/96
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

MAP ID #52

API# 42-025-30240
GAS WELL
PLUGGED

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42-025-30240 (if available)

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 114179

2. FIELD NAME (as per RRC Records): Burkes Ridge, East (2100 SD.)

3. Lease Name: Laura Thompson D. -B-

5. Well Number: 14

6. OPERATOR: Mueller Engineering Corp.

6a. Original Form W-1 Filed in Name of: Exxon Corporation

10. County: Bee

7. ADDRESS: 1010 First City Tower II, Corpus Christi, Texas 78478

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 2-7-84

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3700 Feet From East Line and 2500 Feet From North Line of the Laura D. Thomson Lease "B"

12. Permit Number: 228643

9a. SECTION, BLOCK, AND SURVEY: John Roache

9b. Distance and Direction From Nearest Town in this County: 10 miles West from Skidmore

13. Date Drilling Commenced: 8-14-84

16. Type Well (Oil, Gas, Dry): G

Total Depth: 5417

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil-O Gas-G	WELL #

14. Date Drilling Completed: 8-22-84

18. If Gas, Amt. of Cond. on Hand at time of Plugging: N/A

15. Date Well Plugged: 4-5-94

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	4/4/94	4/5/94	4/5/94					
20. Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1930	1450	15					
*22. Sacks of Cement Used (each plug)	15	15	3					
*23. Slurry Volume Pumped (cu. ft.)	17.7	17.7	3.54					
*24. Calculated Top of Plug (ft.)	1732	1250	0					
25. Measured Top of Plug (if tagged) (ft.)	—	—	—					
*26. Slurry Wt. #/Gal.	15.6	15.6	15.6					
*27. Type Cement	H	H	H					

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
7-7/8"	29	1037'	1037'	9-5/8"
4-1/2"	10.5	5407'	5407'	6-1/2"

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? [X] Yes [ ] No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

Packer left in hole at 1930'

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 2073'	TO 2077'	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

RECORD CODIFICATION
JUN 10 1994

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Dabney Well Service, Inc.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY | Staff Engineer (TITLE) | 4-8-94 (DATE) | Phone (512)883-1911 (A/C NUMBER)

RECEIVED
R.R.C. OF TEXAS
APR 14 1994
O.G.
SAN ANTONIO, TX

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

025-30240

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission [X] Yes [ ] No

32. How was Mud Applied? Pumped

33. Mud Weight 10# LBS/GAL

34. Total Depth 5417'

Depth of Deepest Fresh Water 1,350'

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
Dabney Well Service, Inc., P. O. Box 176, Medina, Texas 78055

Date RRC District Office notified of plugging 4-4-94

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases
Mr. Thomas D. Barrow, 4605 Post Oak Place, Suite 207, Houston, TX 77027-9728
Exxon Company, U.S.A., P. O. Box 2180, Houston, TX 77252-2180

39. Was Notice Given Before Plugging to Each of the Above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging N/A bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

Type or print only

483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42-025-30240

7 RRC District No: 02

8. RRC Gas ID No.: 114179

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1 FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge, East (2100'Sand)

2 LEASE NAME: Laura D. Thomson "B"

9 Well No.: 14

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): Mueller Engineering Corp.

RRC Operator No.: 592645

10. County of well site: Bee

4 ADDRESS: 1010 First City Tower II, Corpus Christi, Texas 78478

11 Purpose of filing: Initial Potential ☐ Retest ☒ Reclass ☐ Well record only (Explain in remarks) ☐

5 Location (Section, Block, and Survey): John Roache A-60

5b Distance and direction to nearest town in this county.: 10 miles West from Skidmore

6 If operator has changed within last 60 days, name former operator: Exxon Co. USA

12 If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
RECORD CODIFICATION			
JAN 12 1989			

13 Pipe Line Connection: Houston Pipe Line

14 Completion or recompletion date: August 22, 1984

15 Any condensate on hand at time of workover or recompletion? ☐ Yes ☒ No

16 Type of Electric or other Log Run: Neutron

Section I — GAS MEASUREMENT DATA

Date of Test: 12/14/88

Gas Measurement Method (Check One): Orifice Meter ☐ Flange Taps ☐ Pipe Taps ☐ Positive Choke ☒ Orifice Vent Meter ☐ Pitot Tube ☐ Critical-flow Prover ☐

Gas produced during test: MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2-3/8'	12/64	.802	820		60	1	1	1.075	707
2	2-3/8'	9/64	.444	840		60	1	1	1.077	402
3	2-3/8'	7/64	.261	840		60	1	1	1.077	236
4										

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg Shut-in Temp.	Bottom Hole Temp.
0.60	Dry Deg API	Dry CF/Bbl	G_{mix} = 0.60	60 °F.	89 °F @ 1954' (Depth)

$D_{eff}^{8/3}$ = 6.31

$\sqrt{T_f} = \sqrt{520^\circ R} = 22.80$

$\sqrt{GL} = \sqrt{(0.6)(1954)} = 34.24$

$C = \frac{1118 \times D_{eff}^{8/3}}{\sqrt{T}} = \frac{7054.58}{22.80} = 309.4$

$\frac{\sqrt{GL}}{C} = \frac{34.24}{309.4} = 0.1107$

Run No	Time of Run Min	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			930						
1	60	12/64	820	60	672.40	78.26	6.12	823.72	0.9955
2	15	9/64	840	60	705.60	44.50	1.98	841.17	0.9986
3	15	7/64	840	60	705.60	26.12	0.68	840.40	0.9995
4									

Run No	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)	Angle of Slope
Shut-In	930	.04112	1.1815	1.0498	976.50	953.55	---	θ ...45°.....
1	1.000	.04112	1.1707	1.0493	864.33	747.06	206.50	n .1.000.....
2	1.000	.04112	1.1729	1.0494	882.72	779.19	174.36	Absolute Open Flow
3	1.000	.04112	1.1729	1.0494	881.92	777.78	175.77	..3400.. MCF/DAY
4								

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Jeffery R. Ilseng, P.E. — Signature Well Tester

Mueller Engineering Corp. — Name of Company

RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Jean Bogard — Signature Operator's Representative

Jean Bogard — Agent — Title

12/14/88 — Date

Tel (512) 883-1911 — A/C Number

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

OK GN

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

18. Permit to Drill, Plug Back or Deepen — DATE — PERMIT NO. 228643

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of

20. Number of producing wells on this lease in this field (reservoir) including this well

21. Total number of acres in this lease

22. Date Plug Back, Deepening, WorkOver or Drilling Operations — Commenced — Completed

23. Distance to nearest well, Same Lease & Reservoir

24. Location of well, relative to nearest lease boundaries of lease on which this well is located — Feet From ____ Line and ____ Feet from Line of the ____ Lease

25. Elevation (DF, RKB, RT, GR, ETC.)

26. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☐ No

27. Top of Pay

28. Total Depth

29. P. B. Depth

30. Surface Casing Determined by: Field Rules ☐ Recommendation of T.D.W.R. ☐ Railroad Commission (Special) ☐ — Dt. of Letter ____ Dt of Letter ____

31. Is well multiple completion? ☐ Yes ☐ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by — Rotary Tools — Cable Tools

34. Name of Drilling Contractor

35. Is Cementing Affidavit Attached? ☐ Yes ☐ No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
From	To
From	To
From	To

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS

0 ... 1 / 5 8

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Type or print only

483-047

NEW FIELD

Form G-1
Rev. 4/1/83

API No. 42-025 30240

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

13554 700

1. FIELD NAME (as per RRC Records or Wildcat): BURKES RIDGE, EAST (2100 sd.)
2. LEASE NAME: LAURA D. Thomson "B"
3. OPERATOR'S NAME (Exactly as shown on Form P-5 Organization Report): Exxon Corporation
RRC Operator No.: 257097
4. ADDRESS: Wilson Tower, Corpus Christi, Texas 78476
5. Location (Section, Block, and Survey): JOHN ROACHE A-60
5b. Distance and direction to nearest town in this county: 10 MI ~~West~~ East (km) from SKIDMORE
6. If operator has changed within last 60 days name former operator: ——
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
BURKES RIDGE, EAST (GRETA)	058112	GAS	14

13. Pipe Line Connection: ——
14. Completion or recompletion date: 8-22-1984
15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☑ No
16. Type of Electric or other Log Run: NEUTRON
7. RRC District No.: 2
8. RRC Gas ID No.: 114179
9. Well No.: 14
10. County of well site: BEE
11. Purpose of filing: Initial Potential ☒ Retest ☐ Reclass ☐ Well record only (Explain in remarks) ☐

NFD 12-18-84 THIS #79

Section I — GAS MEASUREMENT DATA

Date of Test: 08/23/84
Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ Positive Choke ☒ Orifice Vent Meter ☐ Pitot Tube ☐ Critical flow Prover ☐
Gas produced during test: -65 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P_m or Choke Press.	$\frac{18}{P_m}$	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress. Factor F_{pv}	Volume MCF/DAY
1		12/64	.802	819		76	.9850	1.0304	1.057	705
2		10/64	.553	839		76	.9850	1.0304	1.057	498
3		8/64	.347	845		76	.9850	1.0304	1.057	315
4		6/64	.188	848		76	.9850	1.0304	1.057	171

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut in Temp.	Bottom Hole Temp.
.565	—— Deg. API	DRY CF/Bbl	G_{mix} = .565	101 °F	127 °F @ 2075 (Depth)

$D_{eff}^{8/3}$ = | $\sqrt{T_f}$ = $\sqrt{\quad}$ = | $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times D_{eff}^{8/3}}{\sqrt{T}}$ | $\frac{\sqrt{GL}}{C}$

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut In	24 Hrs		865	74					
1	65	12/64	819	76					
2	65	10/64	839	76					
3	65	8/64	845	76					
4	65	6/64	848	76					

Run No.				$E^{2/3}$	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In	USED AMERADA				900	810	
1	BHP GAGE 1.00"				865.0	748.2	61.8
2	4000# ELEMENT				882.0	777.9	32.1
3	SN: 43903				891.0	793.9	16.1
4					895.0	801.0	9.0

Return to Central Records

Angle of Slope: θ 54.0; n .727
Absolute Open Flow: 4600 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Gerald Morgan — Signature, Well Tester
FESCO Inc. — Name of Company
RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

Helen Casner — Signature, Operator's representative: HELEN CASNER
PRORATION SPECIALIST — AUG 30 1984 — Tel. 512/887-2228

SECTION II: DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17 Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18 Permit to Drill, Plug Back or Deepen: DATE 2-07-84 PERMIT NO 228643
Rule 37 Exception: CASE NO.
Water Supply Permit: PERMIT NO
Salt Water Disposal Permit: PERMIT NO.
Other: PERMIT NO.

19 Notice of Intention to Drill This well was filed in Name of: EXXON CORP

20 Number of producing wells on this lease in this field (reservoir) including this well: ONE (DISCOVERY)

21 Total number of acres in this lease: 10,500

22 Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 8-14-84 Completed 8-22-84

23 Distance to nearest well Same Lease & Reservoir: —

24 Location of well, relative to nearest lease boundaries of lease on which this well is located: 3700 Feet From EAST Line and 2500 Feet from NORTH Line of the LAURA D. THOMPSON "B" Lease

25 Elevation (DF, RKB, RT, GR, ETC.): 124' GR

26 Was directional survey made other than inclination (Form W-12)? ☒ Yes ☐ No

27 Top of Pay: 2073

28 Total Depth: 5417

29 P. B. Depth: 2160

30 Surface Casing Determined by: Field Rules ☐ Recommendation of T.D.W.R. ☒ Railroad Commission (Special) ☐ Dt. of Letter / Dt. of Letter

31 Is well multiple completion? Yes ☐ No ☒

32 If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33 Intervals Drilled by: Rotary Tools X Cable Tools

34 Name of Drilling Contractor: FIELD DRLG CO.

35 Is Cementing Affidavit Attached? Yes ☐ No ☒

36 CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT. # FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
7 7/8	39	1037.44		A - 325	9 5/8		
4 1/2	11.6	5406.95		H - 865	6 1/2		

37 LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38 TUBING RECORD

Size	Depth Set	Packer Set
2"	1954'	1954

39 Producing Interval (this completion) Indicate depth of perforation or open hole

From	2073'	To	2077'
From		To	
From		To	
From		To	

40 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
2213 - 2216	CIBP @ 2180 w/20' cmt on BP

41 FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
SAND SHALE	0 - 1050	SHALE	1550 - 1606
SHALE	1050 - 1178	SAND SHALE	1606 - 4220
SAND SHALE	1178 - 1550	SHALE	4220 - 5210
		SAND SHALE	5210 - 5417

REMARKS

This test was conducted at the request of the operator for the express purpose of satisfying RRC requirements. Its suitability for any other purpose is not certified by PESCO Inc. For details contact PESCO Inc.

▶ Return each W-1 with plat and $100.00 fee. Make a check or money order payable to the State Treasurer of Texas. Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Drawer 12967, Capitol Station
Austin, Texas 78711
▶ File a copy of W-1 and plat in RRC District Office

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ Read Instructions on Back

Form W-1
Rev 9/1/83
483 000

229613 V 8A

Purpose of filing (mark appropriate boxes)
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter
☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. ▶ 42-025-30240 Permit No. ▶

Rule 37 Case No. ▶

1 Operator's Name (exactly as shown on Form P-5, Organization Report)
EXXON CORPORATION

3 RRC Operator No.: 257097
4 RRC District No.: 2
5 County of Well Site: Bee

2 Address (including city and zip code)
WILSON TOWER
CORPUS CHRISTI, TX 78476
007241

6 Lease Name (32 spaces maximum): Laura D. Thomson "B"
7 RRC Lease/ID No.:
8 Well No.: 14
9 Total Depth: 5417

10 Location
• Section ____ Block ____ Survey John Roache Abstract No. A-60
• This well is to be located 10 miles in a W. direction from Skidmore
which is the nearest town in the county of the well site.

11 Distance from proposed location to nearest lease or unit line: 2500 ft

12 Number of contiguous acres in lease, pooled unit, or unitized tract: 10,500 (OUTLINE ON PLAT)

13 FIELD NAME (Exactly as shown on RRC proration schedule) List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14 Completion depth	15 Spacing pattern (ft.)	16 Density pattern (acres)	17 Number of acres in drilling unit for this well OUTLINE ON PLAT.	18 Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19 Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20 Oil, gas, or other type well (Specify)	21 No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. Oil	Gas
Wildcat Above	5417	467/1200	40	40	NO	----	Oil or Gas	---	---
00004 001									

22 Perpendicular surface location from two nearest designated lines:
• Lease/Unit 3700' from E line & 2500' from N line
• Survey/Section 20,300' from most sly cor. of sur. & 200' from E line

If a directional well, show also projected bottom hole location:
• Lease/Unit
• Survey/Section

23 Is this a pooled unit?
Yes ☐ ▶ (Attach Form P-12 and certified plat) No ☒

24 Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
Yes ☐ ▶ (Attach Form W-1A) No ☒

25 Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒
If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks

26 Do you have the right to develop the minerals under any right of way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

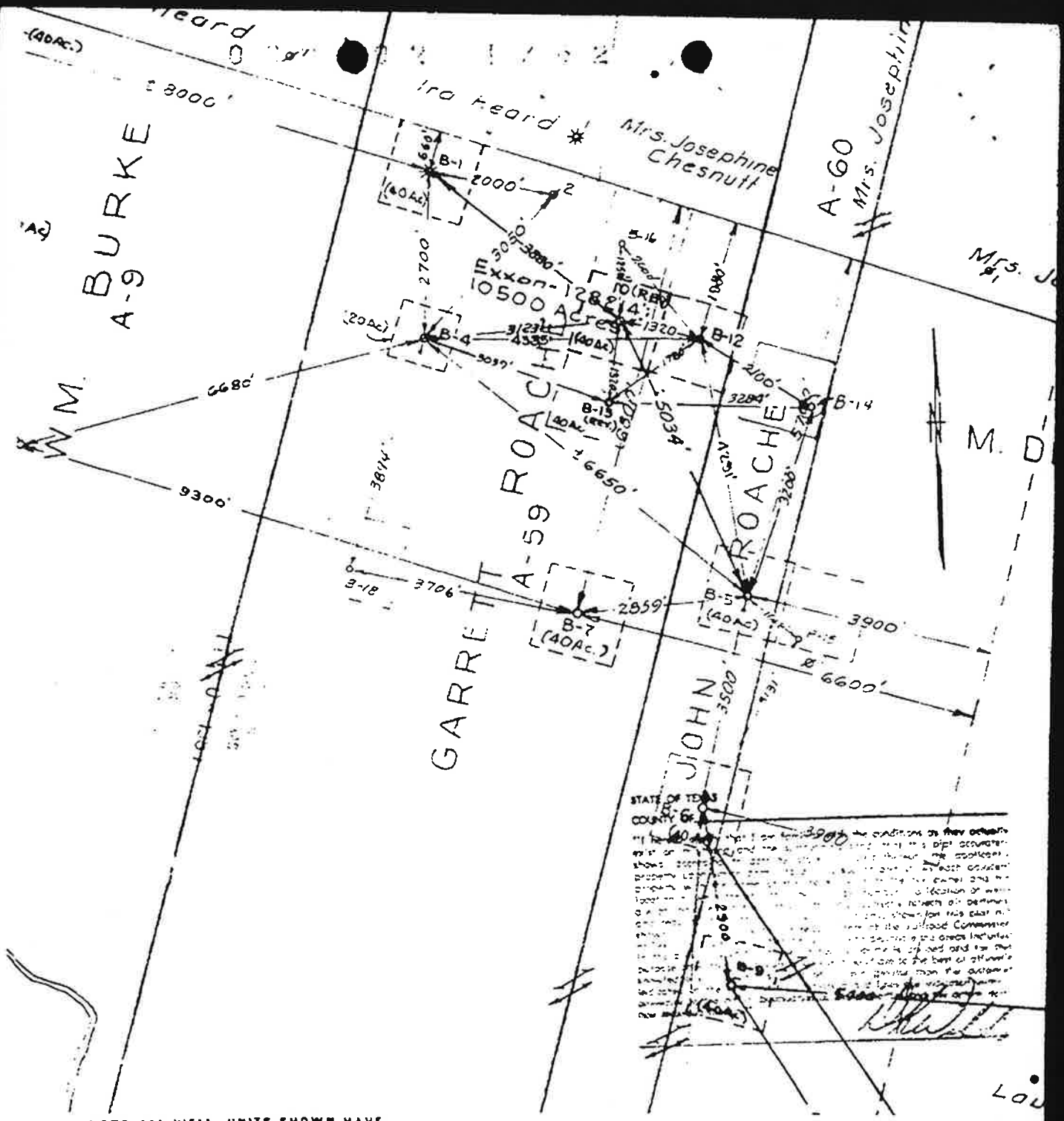
M E Hunt for Helen Casner, Proration Specialist
Signature — Name and title of operator's representative

February 2, 1984 (512) 887-2228
Date (mo day yr) Tel: Area Code Number

• RRC Use Only •

212482 Feb 684 230307

025-30240



NOTE: ALL WELL UNITS SHOWN HAVE 40 ACRES UNLESS OTHERWISE NOTED.

APPLICATION FOR LOCATION WELL # 14

LOCATED 3700 FT. FROM E LINE
AND 2500 FT. FROM N LINE OF LEASE
LOCATED 20,300 FT. FROM Nat SLY LINE Corner of Survey
AND 200 FT. FROM E LINE OF SURVEY

DISTANCES ARE PERPENDICULAR TO LEASE/SURVEY

EXXON CO. U.S.A. – S.T.D. – R.R. COMM

LEASE Laura D. Thomson "D"
LSE. # 128214 ACREAGE 10,500
SURVEY John Roache A-60
FIELD Burke's Ridge COUNTY Bee
SCALE: 1" = 2000 DATE: 1 /30 /84

0 0 0 0 5 2 0 2 2 8 8

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form G-1
Rev. 7/5/66

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

13554 500

7. RRC District: 2
8. RRC Identification Number: 58112
9. Well Number: 14
10. County: Bee
11. Purpose of Test: Initial Potential [X] Retest [ ] Recless [ ]
14. Completion Date: 2-18-74

1. FIELD NAME (as per RRC Records or Wildcat): BURKES RIDGE, EAST (GRETA)
2. LEASE NAME: Laura D. Thomson 'B'
3. OPERATOR: Exxon Corporation
4. ADDRESS: Wilson Towers, Corpus Christi, Texas 78401
5. If Operator has changed within last 60 Days — Give former Operator: Ep 2-18-74
6. LOCATION (Section, Block, and Survey): JOHN ROACHE SURVEY (A-60) 9½ Mi. ENE Skidmore
12. Pipe Line Connection:
13. If Workover, give former Field (with Reservoir):
15. List of Offset Operators Notified and Date of Notification: 4-10-74
16. Type of Electric or other Log Run: NEUTRON

Section I — GAS MEASUREMENT DATA

Date of Test: 2-20-74
Gas Measurement Method (Check One): Orifice Meter [X] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]
Gas produced during test: 248 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.900	1.250	10082.50	425	84.0	66	.9943	1.0323	1.030	2014
2				425	55.5	66	.9943	1.0323	1.030	1637
3				425	34.0	66	.9943	1.0323	1.030	1281
4				425	17.5	66	.9943	1.0323	1.030	919

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg Shut-In Temp.	Bottom Hole Temp.
.563	Dry Deg. API	--- CF/Bbl	G_{mix} = .563	93 °F	112 °F @ 2214.5' (Depth)

$D_{eff}^{8/3}$ | $\sqrt{T_f} = \sqrt{\ }$ = | $\sqrt{GL}$ = $\sqrt{\ }$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = | $\frac{\sqrt{GL}}{C}$ = ____ = ____

Run No.	Time of Run Min.	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_f	P_w/P_f
Shut-In	24 hrs		920	74					
1	120	20/64	773	78					
2	30	Adj.	824	78					
3	30	Adj.	857	78					
4	30	Adj.	884	78					

Run No.	F	K	$S = \frac{1}{n}$	gks	P_f and P_s	P_f^2 and P_s^2	$P_f^2 - P_s^2$
Shut-In					965	931	
1	Used Amerada				828	686	245
2	RPG-4 Gage				874	764	167
3	4000# Element				903	815	116
4	Ser.No. 21030				928	861	70

Angle of Slope: θ = 56°, n = .675
Absolute Open Flow: 5000 MCF/DAY

OPEN FLOW TEST:
Shut-In Press: new well S. Psig
Time Shut-In: Hrs.
Producing Through: In. H_2O In. Hg. Psig
RECEIVED R.R.C. OF TEXAS MAR - 1 1974 R.R. SAN ANTONIO, TEXAS

Time	Reading	Time	Reading
15		29	
20		30	

FESCO, Inc.
REPRESENTATIVE OF COMPANY MAKING TEST

REPRESENTATIVE OF RAILROAD COMMISSION

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

GRADY COYLE
REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST
TITLE

2-27-74
DATE

025 30240

SECTION: BP

DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well ☒ Deepening ☐ Plug Back ☐ Other ☐

18. Date Permit Issued: 9-25-73

19. Name of Individual to Drill this Well was filed in Name of: EXXON CORPORATION

20. If Special Permit, Give Permit Number:

21. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well:

22. Total Number of Acres in this Lease: 10,500

23. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced: 12-21-73 Completed: 2-18-74

24. Distance to Nearest Well, Same Lease & Reservoir:

25. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 3750 Feet From W of E Line and 2500 Feet From S of N Line of the Laura D. Thomson B Lease

26. Elevation (DF, RKB, RT, GR, ETC): 124' GR

27. Was Directional Survey Made: Yes ☒ No ☐

28. Top of Pay	29. Total Depth	30. P.B. Depth	31. Surface Casing Determined By:	Recommendation of Texas Water Development Board ☒	Field Rules ☐	Railroad Commission (Special) ☐
2212	5417	2228				

32. Is Well Multiple Completion? Yes ☐ No ☒

33. If Multiple Completion List All Reservoir Names:

34. Intervals Drilled By: Rotary Tools: X Cable Tools:

35. Name of Drilling Contractor: FIELD DRILLING COMPANY

36. Is Cementing Affidavit Attached? Yes ☒ No ☐

37. CASING RECORD (Report All Strings Set in Well)

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
7 5/8"	39	1037.44	9 5/8"	325 sx. Class A 8% Gel	
4 1/2"	11.6	5406.95	6 1/4"	865 sx.	

38. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

39. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8" 4.7#	2098	2098

40. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From	2213	To	2216
From		To	
From		To	
From		To	

41. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

42. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
SAND + SHALE	0 - 1050	SAND + SHALE	5210-5417
SHALE	1050 - 1178		
SAND + SHALE	1178 - 1560		
SHALE	1560 - 1606		
SAND + SHALE	1606 - 4220		
SHALE	4220 - 5210		

REMARKS:

0 0 0 0 5 2 0 2 2 9 1

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form B-15
(Rev. 8-27-69)

CEMENTING REPORT

(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) BURKES RIDGE, EAST / GRETA /	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or L. D. Number(s) LAURA D. THOMSON B	*6. Well Number 14
*7. Location (Section, Block, and Survey) JOHN ROACHE SURVEY (A-60)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	12-22-73					
*9. (a) Size of Drill Bit (inches)	9 5/8					
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)	7 7/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1037.44					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	Remarks					
(b) In Second Slurry	A+2% $CaCl_2$					
(c) In Third Slurry	A+3% $CaCl_2$					
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	125					
(b) In Second Slurry	150					
(c) In Third Slurry	50					
(d) Total Sacks of Cement Used	325					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.22					
(b) In Second Slurry	1.18					
(c) In Third Slurry	1.18					
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	277.5 f3					
(b) In Second Slurry	177 f3					
(c) In Third Slurry	59 f3					
(d) Total Slurry Volume Pumped (cu.ft.)	513.5 f3					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	2391					
18. Was cement circulated to ground surface (or bottom of collar) outside casing? (Yes or No)	YES					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
U.S.G. OF TEXAS
MAR -1 1974
U.S.
GAS DIVISION, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks: EXXON CO. U.S.A. Thompson L-14 Bee County

13a) 125 sx. A + 8% Gel + 3% Salt

27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

A E Browning
Signature of Cementer or Authorized Representative

A. E. Browning Service Supervisor
Name of Person and Title (type or print)

THE WESTERN COMPANY OF NORTH AMERICAN
Cementing Company

P O Box 1 1 8 6
Street Address or P.O. Box

Robstown, Texas 78380
City, State Zip Code

Telephone 512 387-1523
Area Code

December 22, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

*Date

– INSTRUCTIONS –

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

D 0 0 0 5 2 0 2 2 9 2

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-27-69)

CEMENTING REPORT

(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) BURKES RIDGE, EAST (GRETA)	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA D. THOMSON B	*6. Well Number 14
*7. Location (Section, Block, and Survey) JOHN KNACHE SURVEY (A-60)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date			1-2-74			
*9. (a) Size of Drill Bit (inches)			6-1/2			
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)			4-1/2			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)			5406.95			
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)			Remarks			
(b) In Second Slurry			Remarks			
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry			260			
(b) In Second Slurry			605			
(c) In Third Slurry						
(d) Total Sacks of Cement Used			865			
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry			1.81			
(b) In Second Slurry			1.39			
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry			470			
(b) In Second Slurry			841			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)			1311			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)			10,925			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)			NO			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
MAR - 1 1974
RRC DISTRICT

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks: EXXON COMPANY, U.S.A.
L.D. Thompson #B-14 BEE COUNTY

13-a) 260 sx. TLW + 5% Salt
13-b) 605 sx. 1-1 TALC + 18% Salt
+ 0.2% AF-2

27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6033e, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Signature of Cementer or Authorized Representative

D. W. ROSSER Service Supervisor

Name of Person and Title (type or print)

THE WESTERN COMPANY OF NORTH AMERICA

Cementing Company

P. O. Box 1186

Street Address or P.O. Box

Robstown, Texas 78380

City, State Zip Code

Telephone 512 387-1523

Area Code

January 2, 1974

Date

***OPERATOR**

I declare under penalties prescribed in Article 6033e, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

EXXON CORPORATION

*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

*City, State Zip Code

*Telephone 512 884-4571

Area Code

*Date

– INSTRUCTIONS –

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if inbingleas completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing or Tubing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission and any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

2D 5811 2

FORM W-1
(3-1-70)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

API Well No. BEE DIST. 2
API NO. 42 025 30240

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1. Operator: Exxon Corporation
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78401
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [X] NO [ ]
4. Lease Name: Laura D. Thomson "B"
5. Location (Sec., Blk., Survey): John Roache Survey (A-60)
6. This well is to be located 10 miles W Direction from Skidmore, Texas Nearest Post Office or Town.
7. RRC District: 2
8. County: Bee
9. Well Number: 14
10. Number of Acres in Lease: 10,500
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): Over 467'

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Burkhollow (2600 SD)	2574	--	467 1200	40	40	No	--	Yes	Gas	--	--
Burkhollow, W (1900)	1887	--	467 1200	40	40	No	--	Yes	Gas	--	--
Wildcat Above 5600	5600	--	467 1200	40	40	No	--	Yes	Gas	--	--

RECEIVED
R. R. COMMISSION OF TEXAS
SEP 25 1973

RECEIVED
R. R. COMMISSION OF TEXAS
SEP 24 1973

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

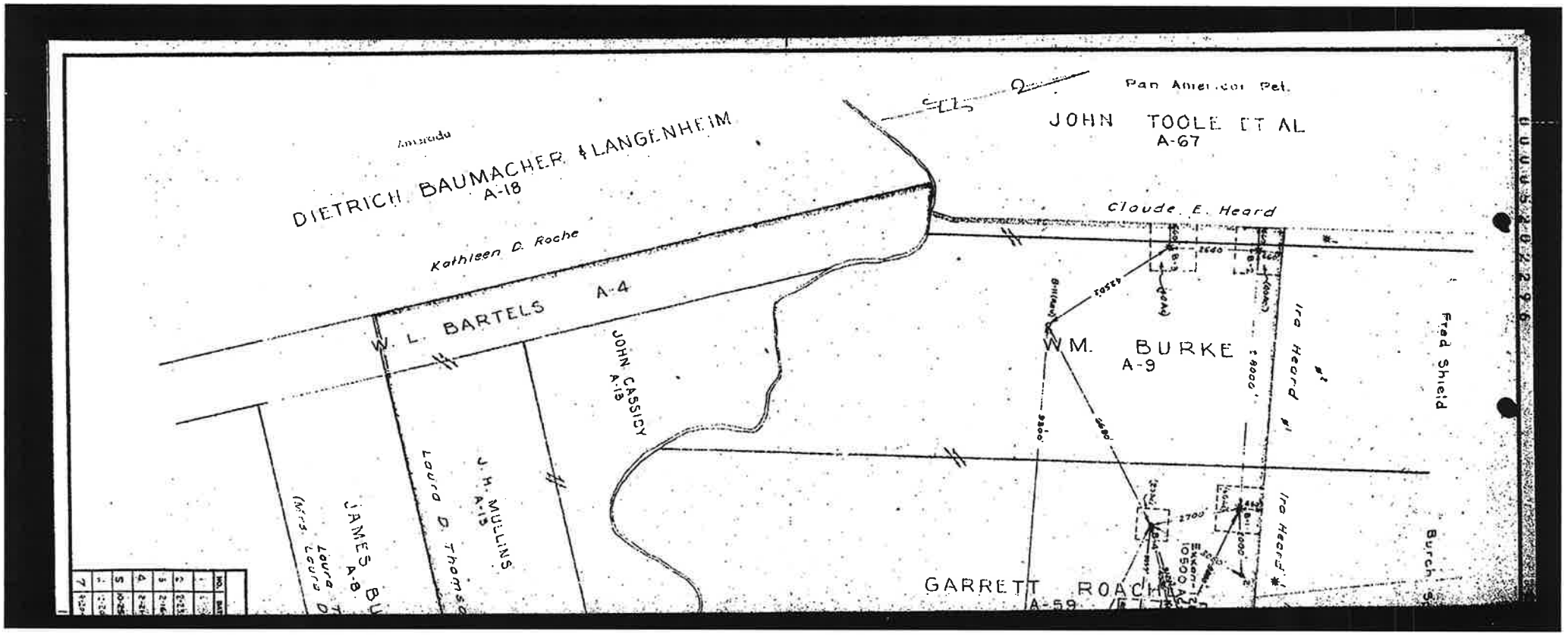
REMARKS:

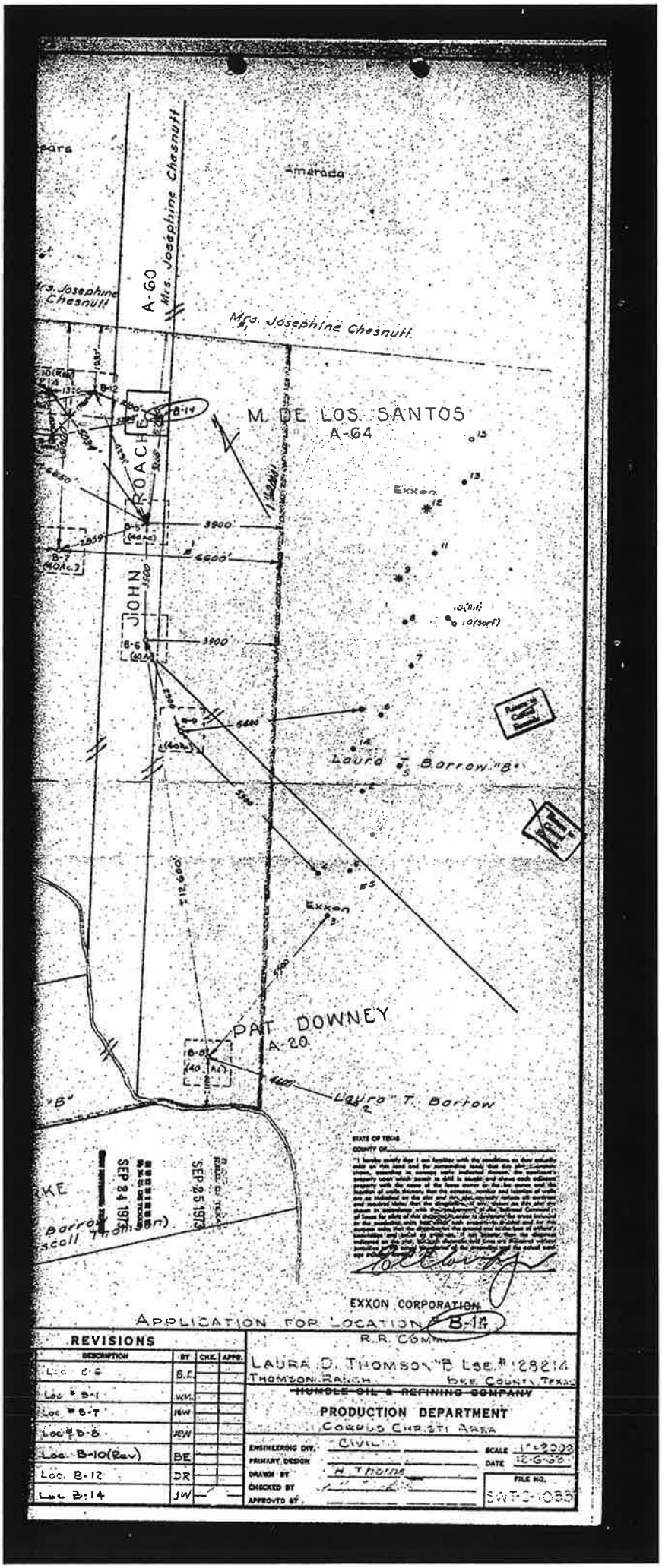
CERTIFICATE
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: Grady Coyle
Grady Coyle
Title: Proration Specialist
Date: September 21, 1973
Telephone: Area Code 512 884-4571

– OVER –

025 30240


Pan American Pet.
JOHN TOOLE ET AL
A-67
Amerada
DIETRICH BAUMACHER & LANGENHEIM
A-18
Cloude E. Heard
Kathleen D. Roche
W. L. BARTELS A-4
JOHN CASSICY
A-13
J. H. MULLINS
A-15
Laura D Thomso
JAMES BU
A-8
(Mrs. Laura D
W M. BURKE
A-9
Ira Heard
Fred Shield
GARRETT ROACH
A-59
Exxon-
10500 A
2700
2640
5280
5280
5280
2700
1000
5280
5280
5280


Mrs. Josephine Chesnutt
A-60
Mrs. Josephine Chesnutt
Mrs. Josephine Chesnutt
M. DE LOS SANTOS
A-64
ROACH
JOHN
B-14
B-12
B-5
B-7
B-6
B-8
3900'
6600'
Exxon
Laura T. Barrow "B"
PAT DOWNEY
A-20
Laura T. Barrow
SEP 24 1973
SEP 25 1973
APPLICATION FOR LOCATION
EXXON CORPORATION
B-14
R.R. COMM.
REVISIONS
DESCRIPTION
BY
CHK.
APPR.
Loc. B-6
Loc. B-1
Loc. B-7
Loc. B-8
Loc. B-10(Rev)
Loc. B-12
Loc. B-14
LAURA D. THOMSON "B" LSE. # 29214
THOMSON RANCH
PRODUCTION DEPARTMENT
CORPUS CHRISTI AREA
ENGINEERING DIV. Civil
PRIMARY DESIGN
DRAWN BY H. Thorne
CHECKED BY
APPROVED BY
SCALE 1" = 2000'
DATE 12-6-55
FILE NO.
SWTC-1035

MAP ID #53

API# 42-025-33444
GAS WELL
PLUGGED

(53)

RECEIVED
RRC OF TEXAS
JUN 19 2012
OIL & GAS DIVISION
SAN ANTONIO, TX

Plugging Record

RECEIVED
APR 17 2012
BY:

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92
EAG0897

API NO. (if available) 42- 025 33444

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 02		
2. FIELD NAME (as per RRC Records): Burkes Ridge (2040)	3. Lease Name: ARC Thompson-Barrow Ranch	4. RRC Lease or Id. Number: 229861
6. OPERATOR: Aurora Resources Corporation	6a. Original Form W-1 Filed in Name of: AURORA RESOURCES CORPORATION	5. Well Number: 2
7. ADDRESS: 600 Leopard St. Ste 1012 CC, TX 78401	6b. Any Subsequent W-1's Filed in Name of:	10. County: Bee
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 997 Feet From NW Line and 1694 Feet From NE Line of the Thomson-Barrow Lease.		11. Date Drilling Permit Issued: 12-5-06
9a. SECTION, BLOCK, AND SURVEY: M. De Los Santos A-64	9b. Distance and Direction From Nearest Town in this County: 4.5 miles SE of Skidmore	12. Permit Number: 629994
16. Type Well (Oil, Gas, Dry): Gas; Total Depth: 3220	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s (GAS ID or OIL LEASE #; Oil-O Gas-G; WELL #)	13. Date Drilling Commenced: 2-25-07
18. If Gas, Amt. of Cond. on Hand at time of Plugging		14. Date Drilling Completed: 4-25-07
		15. Date Well Plugged: 4-3-12

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	4-3							
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1902							
*22. Sacks of Cement Used (each plug)	60							
*23. Slurry Volume Pumped (cu. ft.)	63.6							
*24. Calculated Top of Plug (ft.)	3							
25. Measured Top of Plug (if tagged) (ft.)	3							
*26. Slurry Wt. #/Gal.	16.4							
*27. Type Cement	H							

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.#/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (IN.)
8 5/8	24	350	347	12 1/4
2 7/8	6.50	3200	3197	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

RECEIVED
RRC OF TEXAS
JUN 28 2012
OIL & GAS DIVISION
AUSTIN, TX

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 2864	TO 2860	FROM	TO
FROM 2578	TO 2582	FROM	TO
FROM 1900	TO 1902	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

RECEIVED
CENTRAL RECORDS
SEP 25 2012
AUSTIN, TEXAS

Jimmy D Stewart
Signature of Cementer or Authorized Representative

Basic Energy Services
Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY	President	6-18-12	Phone 361	882-3787
	TITLE	DATE	A/C	NUMBER

Chris 6/22/12
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

197

C.A.

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission [X] Yes [ ] No	32. How was Mud Applied? Thru C-Tbg	33. Mud Weight 9.5 LBS/GAL

34. Total Depth 3220	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [ ] Yes [ ] No
Depth of Deepest Fresh Water 1100	0	700	36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
Basic Energy Services 1006 E. First Street Bishop, TX 78343

Date RRC District Office notified of plugging 4-3-12

38. Name(s) and Addresse(s) of Surface Owners of Well Site
KENNETH BARROW
HOUSTON TX

39. Was Notice Given Before Plugging to the Above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:
[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*
* Field FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY
Nearest Field _____

REMARKS Notified Carmen w/ RRC. Job #02-1459.

Type or print only

ORIGINAL

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

483-047

API No. 42- 025 - 33444

7. RRC District No: 2

8. RRC Gas ID No.: 229861

Gas Well Back Pressure Test, Completion or Recompletion Report and Log

1. FIELD NAME (as per RRC Records or Wildcat): BURKES RIDGE (2040)

2. LEASE NAME: ARC Thomson - Barrow Ranch

9. Well No.: 2

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): Aurora Resources Corporation

RRC Operator No: 036931

10. County of well site: Bee

4. ADDRESS: 600 Leopard Street, Suite 2015, Corpus Christi, Texas 78473

11. Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): M. DE LOS SANTOS

5b. Distance and direction to nearest town in this county.: 4.5 MILES E. OF SKIDMORE

6. If operator has changed within last 60 days, name former operator:

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O / Gas - G	WELL NO.

13. Pipe Line Connection: COPANO

14. Completion or recompletion date: 4-25-07

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [ ] No

16. Type of Electric or other Log Run:

Section I — GAS MEASUREMENT DATA

Date of Test: 04-~~03~~/28/07

Gas Measurement Method (Check One): Orifice Meter [X] Flange Taps [X] Pipe Taps [ ] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 492 MCF

Run No.	Line Size	Orif or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Gas Rate MCF / DAY
1	2.900	0.875	4841.47	91	12.13	81	0.9804	1.0351	1.0054	164
2										
3										
4										

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydrocarbon Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.5600	---- Deg. API	Dry CF/Bbl	G_{mix} = 0.5600	91 °F	108 °F @ 1901 ft (Depth)

$(D_{eff})^{8/3}$ = 10.802

$\sqrt{T_f} = \sqrt{556} =$ 23.58

$\sqrt{GL} = \sqrt{1064.560} =$ 32.628

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 1118 x 10.802 / 23.58 = 512.163

$\frac{\sqrt{GL}}{C}$ = 32.628 / 512.163 = 0.0637

Run No.	Time of Run Minutes	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w / P_1
Shut-In	24 hrs	SI	709	74	502.7	0.0	0.0000	709	1.0000
1	4320	10/64	416	85	173.1	10.4	0.1091	416	1.0000
2									
3									
4									

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (Thousands)	$P_f^2 - P_s^2$ (Thousands)
Shut-In	1.0000	0.0362	1.0829	1.0400	737	543	
1	1.0000	0.0359	1.0459	1.0383	432	187	357
2							
3							
4							

Angle of Slope: Θ = 45.00°

n = 1.0000

Absolute Open Flow: 250 MCF / DAY

RECEIVED
CENTRAL RECORDS
OCT 15 2007
AUSTIN, TEXAS

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string are furnished by the operator of the well

Signature: Well Tester | Name of Company | RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature, Operator's Representative | President (Title) | 9-12-07 (Date) | Tel: A/C 361 882-3787 Number

VALID PERMIT

Section III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest) — SEP 26 2007

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 12-5-06 — PERMIT NO. 629994
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in the Name of
AURORA RESOURCES CORPORATION

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 160

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 2-25-07 Completed 4-25-07

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 997 Feet From NW Line and 1694 Feet From NE Line of the THOMSON BARROW RANCH Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 119

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay: 1900

28. Total Depth: 3200

29. P. B. Depth: 3170

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. [X] Dt. of Letter 12-5-06 Railroad Commission (Special) [ ] Dt. of Letter 3-12-07

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-O Gas-G	Well #

33. Intervals Drilled by: Rotary Tools: Cable Tools:

34. Name of Drilling Contractor: SCORPION E+P

35. Is Cementing Affidavit Attached? [ ] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24#	350	NA	327 A	12 1/4"	SURFACE	386
2 7/8"	6.5#	3200	NA	710 Poz/A	7 7/8"	SURFACE	1217

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2.875"	3200 ft	

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1900 ft	To	1902 ft (MD)
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
MIOCENE	1700'		
FRIO	2500'		

REMARKS:

Cementer: Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
Aurora Resources	036931	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7. Drilling Permit No**
Burkes Ridge (2040)		42-025-33444	629994
8 Lease Name	**9. Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No.**
ARC Thomson Barrow Ranch			2

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		2-10-07					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		75%		WATER BOARD LETTER DATED 12/5/06			
14 Size of casing (in O D)		8 5/8		Depth 0-7001/1202			ft.
15 Top of liner (ft)				13(A) Exception Dated 03/12/07			
16 Setting depth (ft)		520		Surface Casing 400			ft.
17 Number of centralizers used		10					
18 Hrs waiting on cement before drill-out		12		D.V. @ N/A			ft.
1st Slurry	19. API cement used No. of sacks ▶	327					
	Class ▶	A					
	Additives ▶	Neat					
2nd Slurry	No of sacks ▶						
	Class ▶					SEP 17 2007 BC	
	Additives ▶						
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped. Volume (cu. ft.) ▶	386					
	Height (ft) ▶	936					
2nd	Volume (cu ft) ▶						
	Height (ft.) ▶						
3rd	Volume (cu ft.) ▶						
	Height (ft) ▶						
Total	Volume (cu. ft.) ▶	386					
	Height (ft) ▶	936					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

John McCann — Name and title of cementer's representative
Pioneer Services Inc — Cementing Company
[signature] — Signature

PO Box 1329 — Address
Beaumont — City,
TX — State,
77702-1329 — Zip Code
713 661-1747 — Tel.: Area Code Number
10 — Date: mo.
10 — day
07 — yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

B. Scott Hines — Typed or printed name of operator's representative
President — Title
[signature] — Signature

600 Leopard St. Ste 1012 — Address
Corpus Christi, Tx, 78473 — City, State, Zip Code
361 882-3787 — Tel.: Area Code Number
9-4-07 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1. Operator's Name (As shown of Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.,	4. County of Well Site
AURORA RESOURCES CORPORATION	036931	02	BEE

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
BURKES RIDGE (2040)	42-025-33444	629994

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
ARC-THOMSON BARROW RANCH			2

CASING CEMENT DATA:		SURFACE	INTERMEDIATE	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				3-5-07			
13. • Drilled hole size				7 7/8			
• Est. % wash or hole enlargement				10%			
14. Size of casing (in. O.D.)				2 7/8"			
15. Top of liner (ft.)							
16. Setting Depth				3200			
17. Number of centralizers used				20			
18. Hrs. Waiting on cement before drill out				NA			
1st Slurry	19. API cement used: No. of sacks ▶			220			
	Class ▶			A			
	Additives ▶	(POZ:A:GEL) + 3% SALT + .2% R-3 + .25 PPS CELLOFLAKE + .005 GPS FP-6L					
2nd Slurry	No. of sacks ▶			595			
	Class ▶			A			
	Additives ▶	(POZ:CAP A:GEL) + 3% KCL + 5% FL-25 + .25% CD-32 + .1% ASA-301 + .4% SM + .005 GPS FP-6L					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1ST	20. Slurry pumped: Volume (cu.ft.) ▶			490			
	Height (ft.) ▶			1666'			
2ND	Volume (cu.ft.) ▶			727			
	Height (ft.) ▶			2490'			
3RD	Volume (cu.ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu.ft.) ▶			1217			
	Height (ft.) ▶			4156'			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing				YES			

22. Remarks :

1070

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type of cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code that I am authorized to make this certification,, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed me by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Ernest Montez Jr. - Supervisor
Name and title of cementer's representative

BJ Services Company
Cementing Company

Ernest Montez Jr
Signature

411 Hartman Road Victoria Texas 77905
Address City, State, Zip Code

361-575-6446
Tel.: Area Code Number

03-05-07
Date: mo day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct,, and complete, to the best of my knowledge. This certification covers all well data.

B. Scott Hines
Typed or printed name of operator's representative

President
Title

B Scott H
Signature

600 Leopard St. Ste 1012
Address

Corpus Christi TX 78473
City, State, Zip Code

361 882-3787
Tel.: Area Code Number

9-4-07
Date: mo day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing Cementing, Drilling and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by The Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper that 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be place every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirments of Statewide Rule 13. In written application, an operator must state the reason for the requested exception and outline an alternate program for casing through the production depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An opeator must obtain approval of any exception before beginning casing and cementing operations!

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

API No. 42-025-33444
Drilling Permit # 629994
SWR Exception Case/Docket No.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

FORM W-1 07/2004

Permit Status: Approved

1. RRC Operator No.	2. Operator's Name (as shown on form P-5, Organization Report)	3. Operator Address (include street, city, state, zip):
036931	AURORA RESOURCES CORPORATION	THE 600 BLDG STE 2015 600 LEOPARD ST CORPUS CHRISTI, TX 78473

4. Lease Name	5. Well No.
ARC - THOMSON - BARROW RANCH	2

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [ ] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth: 5200

9. Do you have the right to develop the minerals under any right-of-way ? [X] Yes [ ] No

10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? [ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.: 02

12. County: BEE

13. Surface Location [X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 4.5 miles in a SE direction from SKIDMORE which is the nearest town in the county of the well site.

15. Section	16. Block	17. Survey	18. Abstract No.	19. Distance to nearest lease line:	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
		M. DE LOS SANTOS	A-64	997 ft.	160

21. Lease Perpendiculars: 997 ft from the NW line and 1694 ft from the NE line.

22. Survey Perpendiculars: 1180 ft from the W line and 7460 ft from the N line.

23. Is this a pooled unit? [ ] Yes [X] No

24. Unitization Docket No:

25. Are you applying for Substandard Acreage Field? [ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION **List all fields of anticipated completion including Wildcat. List one zone per line.**

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	52285166	LAURA THOMSON (4850)	Gas Well	4850	0.00	1
02	13551850	BURKES RIDGE (2040)	Gas Well	2040	0.00	1
02	40032924	HEARD RANCH (4800)	Gas Well	4800	0.00	1
02	00004001	WILDCAT	Oil or Gas Well	5200	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks

Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

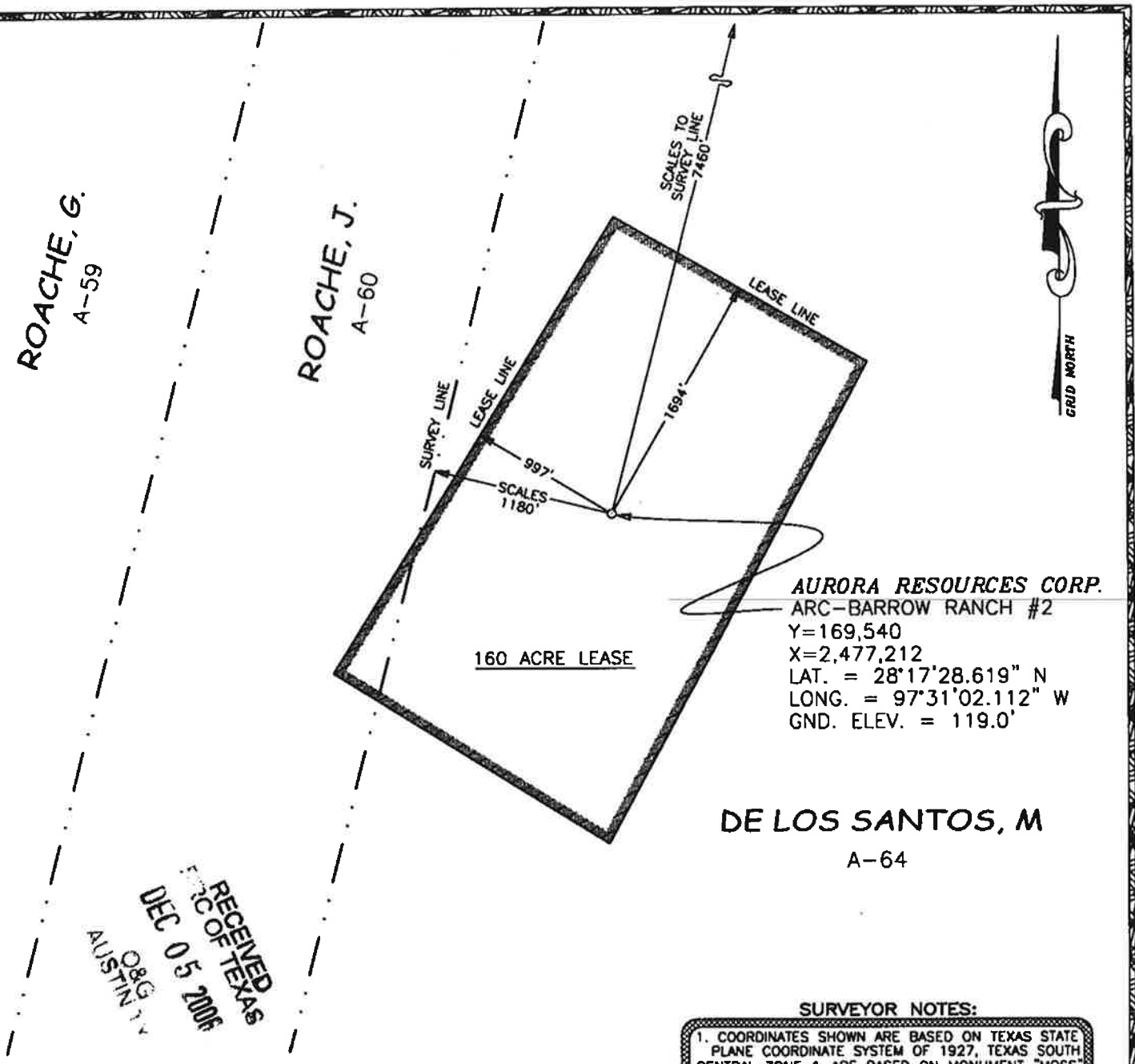
< Walk in Application > — Name of filer

Dec 05, 2006 — Date submitted

Phone

E-mail Address (OPTIONAL)

RRC Use Only Data Validation Time Stamp: Dec 5, 2006 4:08 PM('As Approved' Version)



500 0 500 1000 1500 2000 2500 3000

SCALE: 1" = 1000 FEET

SURVEYOR NOTES:

1. COORDINATES SHOWN ARE BASED ON TEXAS STATE PLANE COORDINATE SYSTEM OF 1927, TEXAS SOUTH CENTRAL ZONE & ARE BASED ON MONUMENT "MOSS" (Y = 176,499.14 X = 2,473,675.17)
2. LATITUDE & LONGITUDE ARE NAD 27 GEOGRAPHIC
3. ALL LEASE & TRACT INFORMATION SHOWN HEREON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY AND THE UNDERSIGNED SURVEYOR DOES NOT WARRANT TO THE ACCURACY THEREOF.

I HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS THE SUBJECT LOCATION AS STAKED ON THE GROUND NOVEMBER 16, 2006.

JARREL L. MOORE
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 4854

STATE OF TEXAS
REGISTERED
JARREL L. MOORE
4854
PROFESSIONAL
LAND SURVEYOR

PLAT OF:

A WELL LOCATION FOR:

AURORA RESOURCES CORP.

ARC-THOMSON-BARROW RANCH #2

SITUATED IN THE M. DE LOS SANTOS SURVEY, A-64, APPROXIMATELY 4.5 MILES EAST SOUTHEAST OF SKIDMORE IN BEE COUNTY, TEXAS

Completion Date: 11/16/06	File Name: 0611046.dwg
Scale: 1" = 1000'	Surveyed by: WM
Drawn by: MT	Checked by: JLM

FRONTIER SURVEYING COMPANY
SERVICES: LAND SURVEYING/LOCATIONS/PIPELINES/MAPPING/GPS/GIS
710 BUFFALO STREET, SUITE 401, CORPUS CHRISTI, TEXAS, 78401
PHONE: (361) 881 - 8044 FAX: (361) 881 - 8340
www.frontiersurveying.com
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PLOT DATE: 11-21-06 3:45 PM

MAP ID #54

API# 42-025-02825
DRY HOLE

36062

(54)

PLEASE WIRE PERMIT

PW

Application to Drill, Deepen or Plug Back.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK DRILL
SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE,
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, fo this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet, if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 660 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease -- feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date November 14, 19 62

Name of company or operator

Name Carrl Oil

Address P. O. Box 576

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Josephine Chestnutt

Number of Acres 600 Well No. 1

Number of wells on lease

Elevation 124.0 (Ft. above sea level) Section No. -- Block No. --

Survey Miguel de Los Santos

Zone or Reservoir None

To be Located in Wildcat Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) *

Bee County

8-1/2 Miles SW direction from

Blanconia, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling Immediately

Depth to which you propose to drill 6,000 feet.

Date work will start deepening ---

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name

Address

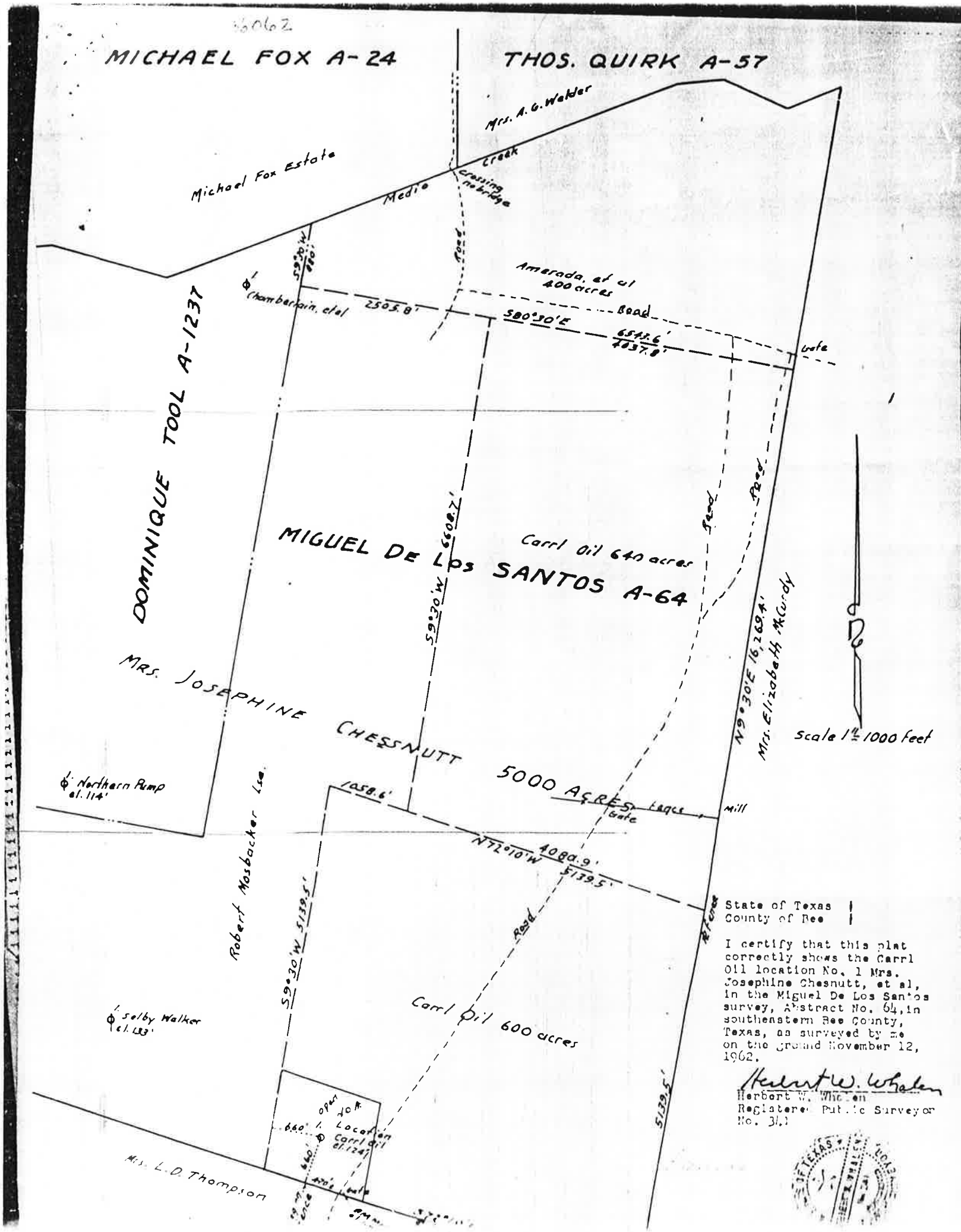
RECEIVED
NOV 15 1962
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO

OK

* 660' west of the east line and 660' north of the south line.

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE



State of Texas
County of Bee

I certify that this plat correctly shows the Carrl Oil location No. 1 Mrs. Josephine Chesnutt, et al, in the Miguel De Los Santos survey, Abstract No. 64, in southeastern Bee County, Texas, as surveyed by me on the ground November 12, 1962.

Herbert W. Whalen
Registered Public Surveyor
No. 341

36062

Please Refer to File No.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company Carrl Oil Address P. O. Box 576, Corpus Christi, Texas

Sec. No. - - - Block No. - - - - - Survey Miguel de los Santos County Bee

Well No. 1 Name of Lease Josephine Chestnutt No. of Acres 600 Elev. 124.0

Name of Field in which well is located Wildcat

Located 8½ Miles SW Direction from Blanconia (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Carrl Oil

Drilling Commenced 11/21/, 1962, Drilling Completed 11/30/, 1962

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 5791'

Date you wish to Plug 12/1/, 1962

Name of Party Plugging Well Halliburton Company Address Corpus Christi, Texas

Correspondence regarding this well should be sent to: Name Carrl Oil

Address P. O. Box 576, Corpus Christi, Texas

Initial Production of Gas: Volume (MCF) - - - 24 hrs. Pressure - - - - lbs. per square inch

Initial Production of Oil: Barrels - - -

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks:

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DEC 1 0 1962
OIL & GAS DIVISION
REFUGIO, TEXAS

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
KB to GL	0'	10'	
Surface Casing	10'	328'	
Fresh Water Sands streaked w/shale	328'	1544'	
Shale w/sand streaks	1544'	2678'	
Shale	2678'	3095'	
Sand w/shale streaks	3095'	3868'	
Shale	3868'	4130'	
Shale and sandy shle	4130'	4560'	
Shale	4560'	4766'	
Shale w/sand streaks	4766'	4900'	
Shale	4900'	5560'	
Sand w/shale streaks	5560'	5791' m	TD

RECEIVED
DEC 1 7
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

and surface casing

Method of shutting off water cement plug, mud ..... Is water completely shut off? ..... Yes .....

Amount of water with oil - - - - - - ..... per cent ..... - - - .....

I, Pat Sweeney

being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Pat Sweeney
Representative of Company.

Subscribed and sworn to before me this 11th day of December, 1962

Nancy E. Montgomery
Notary Public
Nueces County, Texas

36062

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form I-1
11-2-62

INCLINATION REPORT

ONE COPY MUST BE FILED WITH EACH COMPLETION REPORT

Field Name Wildcat County Bee RRC Dist. No. 2

Operator Carrl Oil Address P.O. Box 576 City Corpus Christi

Lease Name & No. Josephine Chestnutt Well No. 1 Survey

RECORD OF INCLINATION

Depth (feet)	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
500'	1/4	2.20	2.20
1300'	1/2	6.96	9.16
2257'	3/4	12.54	21.70
2775'	1	9.07	30.77
3275'	1	8.75	39.52
3875'	3	31.38	70.90
4200'	2	11.34	82.24
4377'	2	6.18	88.42
4909'	3/4	6.97	95.39
5434'	1/2	4.57	99.96
5790'	1/2	3.10	103.06

Total Displacement 103.06

Was survey run in Tubing - - - - Casing - - - - Open Hole x
Distance to nearest lease line 660 feet
Distance to lease lines as prescribed by field rules 467 feet

Certification of personal knowledge Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.

Pat Sweeney, Agent
Signature

CARRL OIL
Company

Operator Affidavit:

(Note: Party making affidavit must strike out inapplicable phrases, and must file explanatory statement when applicable.)

Before me, the undersigned authority, on this day, personally appeared Pat Sweeney, known to me to be the person whose name is subscribed hereto, [illegible] identified in this instrument), and that such well was not intentionally deviated from the vertical whatsoever. [illegible]

Pat Sweeney Agent
Signature and Title of Affiant

Sworn and Subscribed to before me, this the 11th day of December, 1962 A.D.

Mary E Montgomery
Notary Public in and for Nueces County, Texas.

RRC Use Only:

Approved By:
Title:
Date:

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DEC 19 1962
Railroad Commission of Texas
OIL & GAS DIVISION
CORPUS CHRISTI, TEXAS

36062

Please Refer to File No. ____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Carrl Oil Address P. O. Box 576, Corpus Christi, Texas

Sec. No. - - - Block No. - - - Survey Miguel de los Santos County Bee

Well No. 1 Name of Lease Josephine Chestnutt No. of Acres 600

Name of Field in which well is located Wildcat Date well was plugged 12/1/ 1962

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of Carrl Oil

Character of Well at the time of completion: Oil - - bbls; Gas - - Cu. Ft.; Dry X
(Initial Production) (Initial Production)

Amount well producing when plugged: Oil - - - bbls; Gas - - Cu. Ft.; Water - - - - bbls.

Has this well ever produced oil or gas? No

Total Depth 5791 feet. Top of each producing sand None feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Pump

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? No; Plugged well from 1700' to 1550' w/40 sx. Longhorn cement; from 800' to 700' w/ 35 sx. Longhorn cement; 5 sx. in top of surface casing

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
8-5/8"	287	.92	- -	- -	287	.92	Halliburton Guide Shoe
10-3/4"	31	.05	- -	- -	31	.05	

Show depth found and thickness of all water, oil and gas formations None

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: surface casing, mud and cement plugs

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:

N - Carrl Oil, P. O. Box 576, Corpus Christi, Texas
S - Humble Oil and Refining, Corpus Christi, Texas
E - Open
W - Robert Mosbacher, 603 Bank of Commerce Building, Houston, Texas

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DEC 13 1962
OIL & GAS DIVISION

Was notice given before plugging to all available adjacent lease owners as required by Rule 10? ____

I, Pat Sweeney, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name Pat Sweeney, Title Agent

Subscribed and sworn to before me this 11th day of December, 1962

Nancy E. Montgomery
Notary Public Nueces County, Texas

Correspondence regarding this well should be addressed to:

Name Carrl Oil Address P.O. Box 576, Corpus Christi, Texas

36062

March 15, 1963

Josephine Chesnutt
Kenedy, Texas

Gentlemen:

We have today received in this office your application to abandon and use as a water well Carrl Oil Co. Josephine Chesnutt No. 1, Bee County, Texas.

Since Carrl Oil Co. has filed plugging reports on this well you are hereby granted authority to use the above mentioned well as a fresh water well.

Yours very truly,

Harry M. Batis
Chief Supervisor

RGC:ss

cc: H. E. Roach, Deputy Supervisor
Railroad Commission of Texas
Refugio, Texas

— OK 36062

Abnd

APPLICATION FOR PERMIT TO ABANDON
AND USE AS A WATER WELL

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
Austin, Texas

As owners in fee simple of the land on which Carrl Oil Company drilled a well for oil and gas in Bee County, to wit, No. 1 Josephine Chesnutt Well, the same about to be plugged and abandoned, we hereby file application for permit to make use of the fresh water therein when the well is properly plugged back to the approximate depth of 300 feet.

In consideration of the granting of this application, we hereby obligate ourselves to complete the plugging of said well any time it becomes polluted with mineral water, or constitutes a menace to any oil or gas producing strata in that area, when so ordered by the Railroad Commission of Texas or its representatives.

Josephine Chesnutt
Name

Kenedy, Texas
Address Town

STATE OF TEXAS |

COUNTY OF Bee |

Before me, a Notary Public, in and for Bee County, Texas, on this day personally appeared Josephine Chesnutt, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposed and consideration therein expressed, and in the capacities therein stated.

Given under my hand and seal of office this the 29th day of November, A.D., 1962.

J. G. KNIGHT
Notary Public in and for Bee County, Texas.

RECEIVED
DEC 5 1962
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

MAP ID #55

API# 42-025-33676
DRY HOLE

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W - 3
Rev. 12/92

Plugging Record

Not on sch

None

API NO. (if available) 42-025-33676

1.RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4.RRC Lease or Id.: N/A

2. FIELD NAME (as per RRC Records): WILDCAT

3. Lease Name: SASSER

5.Well Number: 2

6. OPERATOR: MEGO RESOURCES, LLC

6a. Original Form W-1 Filed in Name of: ~~Wildcat~~ Mego Resources, LLC

10.County: BEE

7. ADDRESS: 1229 FM 889, Beeville, TEXAS 78102

6b. Any Subsequent W-1's Filed in Name of: None

11.Date Drilling Started: 10/9/09

8.Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3185.8 Feet From EAST Line and 1169.5 Feet From 5 Line of the SASSER Lease

12.Permit Number: 685287

9a.SECTION, BLOCK, AND SURVEY: M DeLos Santos A-65

9b.Distance and Directions From Nearest Town in this ~~EAST OF BEEVILLE~~ 12 miles NE Skidmore

13.Date Drilling Completed: 10/17/09

16.Type Well (Oil, Gas, Dry): Dry

Total Depth: ~~1150~~ 6,100

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.s

GAS ID or OIL LEASE #	Oil - O Gas-G	WELL #

13.Date Drilling

18.If Gas, Amt. of Cond. on Hand at time of Plugging: No

15.Date Well Plugged ~~10/17/2009~~ 10/18/09

RECEIVED RRC OF TEXAS NOV 10 2009 OIL & GAS DIVISION SAN ANTONIO, TX

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	18-Oct	18-Oct	18-Oct					
20. Size of Hole of Pipe in which Plug Placed (in.)	7 7/8	8 5/8	8 5/8			N/A		
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1150	886	10					
*22. Sacks of Cement Used (each plug)	35	72	10					
*23. Slurry Volume Pumped (cu.ft.)	41.7	85	12					
*24. Calculated Top of Plug (ft.)	1050	650	3					
25. Measured Top of Plug (if tagged) (ft.)	1049							
*26. Slurry Wt. #/Gal.	15.6	15.6	15.6					
*27. Type Cement	remarks	A	A					

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.#/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	826	826	12 1/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well — Yes — No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more Space is needed)

T.N.R.C.C. LETTER DATED 9-22-09

Depth 1100' ft.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	1150	TO	6,100		
FROM		TO			
FROM		TO			
FROM		TO			
FROM		TO			

FROM	13(A) Exception Dated	TO	10-1-09
FROM		TO	
FROM	Surface Casing	TO	800 ft.
FROM	D.V. @	TO	ft.
FROM		TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designate items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Ernest Gonzalez — Signature of Cementer or Authorized Representative

Schlumberger — Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY

Managing Partner — TITLE

11/8/09 — DATE

Phone No. 361-449-3178 A/C NUMBER

~~SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION~~

RECEIVED
CENTRAL RECORDS
MAR 02 2010
AUSTIN, TEXAS

Schlumberger Private

MAPPING

PROCESSED BY: edwards

DATE: 11-13-09

025-33676

31. Was well filled with Mad-Laden Fluid, according to the regulations of the Railraod Commission — X YES / ___ NO	32. How was Mud Applied? Pump	33. Mud Weight LBS/GAL 9.1

34. Total Depth ~~1150~~ 6,100 Depth of Deepest Fresh Water 1,100	Other Fresh Water Zones by T.D.W.R. TOP ___ BOTTOM ___	35. Have all abandoned Wells on this Lease been plugged according to R R C rules? [✓] Yes [ ] NO 36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well Schlumberger 1126 Airport Rd. Alice ,Tx 78332	Date RRC District Office 10/17/09

38. Name(s) and Address(es) of Surface owners of Well Site

Stuart Sasser
P.O. Box 907
Corpus Christi, Texas 78403

39. Was Notice Given Before Plugging to the Above?

Yes

FILLE IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Drillers, Electric, Radioactivity, or Acoustical/Sonic Log or such Log must be released to Commercial Log Service

[✓] Log Attached [ ] Log Released to ___ Date ___

Type Logs [ ] Driller's [✓] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FROM P-8 (Special Clearance) Filed ?

N/A

42. Amount of Oil Produced prior to Plugging N/A bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field

REMARKS

Plug #1 : Class A+1% S001

Schlumberger Private

025 - 33676

Cementer: Fill in shades areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown of Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.,	4. County of Well Site
Mego Resources, LLC	559362	02	Bee

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Wildcat	42-025-33676	685287

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
9. SASSER	10. N/A	N/A	12. 2

CASING CEMENT DATA:		SURFACE	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		10-9-09					
13. • Drilled hole size		12 1/4					
• Est. % wash or hole enlargement		20%					
14. Size of casing (In. O.D.)		8 5/8					
15. Top of liner (ft.)		N/A					
16. Setting Depth		826					
17. Number of centralizers used		8					
18. Hrs. Waiting on cement before drill out		8					
1st Slurry	19. API cement used: No. of sacks ▶	190					
	Class ▶	POZ:A:GEL					
	Additives ▶	15:85:12+3%SALT+0.005GPS FP-6L					
2nd Slurry	No. of sacks ▶	120					
	Class ▶	CLASS A					
	Additives ▶	+2%CACL2+0.005GPS FP-6L					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1ST	20. Slurry pumped: Volume (cu.ft.) ▶	439					
	Height (ft.) ▶	1061					
2ND	Volume (cu.ft.) ▶	144					
	Height (ft.) ▶	347					
3RD	Volume (cu.ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu.ft.) ▶	583					
	Height (ft.) ▶	1408					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing		YES					

RECEIVED
RRC OF TEXAS
NOV 10 2009
OIL & GAS DIVISION
SAN ANTONIO, TX

22. Remarks
ARROW DRILLING SASSER #2 1001508290 8-5/8 ~~834~~ 826 FT BEE COUNTY

1070

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type of cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code that I am authorized to make this certification,, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed me by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

MIKE TRAMEL-CEMENTER	BJ SERVICES	Michael Tramel
Name and title of cementer's representative	Cementing Company	Signature

411 HARTMAN RD. VICTORIA, TX. 77905	(361) – 575 – 6446	10-9-09
Address City, State, Zip Code	Tel.: Area Code Number	Date: mo day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct,, and complete, to the best of my knowledge. This certification covers all well data.

Bob Mitchell	Managing Partner	Bob Mitchell
Typed or printed name of operator's representative	Title	Signature

1229 FM 889 George West TX 78022	361-449-3178	11/8/09
Address City, State, Zip Code	Tel.: Area Code Number	Date: mo day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing Cementing, Drilling and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by The Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper that 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be place every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirments of Statewide Rule 13. In written application, an operator must state the reason for the requested exception and outline an alternate program for casing through the production depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An opeator must obtain approval of any exception before beginning casing and cementing operations!

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

API No. 42-025-33676
Drilling Permit # 685287
SWR Exception Case/Docket No.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

FORM W-1 07/2004

Permit Status: Approved

1. RRC Operator No.: 559362
2. Operator's Name (as shown on form P-5, Organization Report): MEGO RESOURCES, LLC
3. Operator Address (include street, city, state, zip): 1229 FM 889, GEORGE WEST, TX 78022
4. Lease Name: SASSER
5. Well No.: 2

GENERAL INFORMATION

6. Purpose of filing (mark ALL appropriate boxes): [X] New Drill [ ] Recompletion [ ] Reclass [ ] Field Transfer [ ] Re-Enter [ ] Amended [ ] Amended as Drilled (BHL) (Also File Form W-1D)

7. Wellbore Profile (mark ALL appropriate boxes): [X] Vertical [ ] Horizontal (Also File Form W-1H) [ ] Directional (Also File Form W-1D) [ ] Sidetrack

8. Total Depth: 6200

9. Do you have the right to develop the minerals under any right-of-way ? [X] Yes [ ] No

10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? [ ] Yes [X] No

SURFACE LOCATION AND ACREAGE INFORMATION

11. RRC District No.: 02
12. County: BEE
13. Surface Location [X] Land [ ] Bay/Estuary [ ] Inland Waterway [ ] Offshore

14. This well is to be located 12 miles in a NE direction from Skidmore which is the nearest town in the county of the well site.

15. Section	16. Block	17. Survey	18. Abstract No.	19. Distance to nearest lease line:	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
		DE LOS SANTOS, M	A-64	1169.5 ft.	5300

21. Lease Perpendiculars: 3198.8 ft from the E line and 1169.5 ft from the S line.

22. Survey Perpendiculars: 5400 ft from the E line and 13500 ft from the NE(CREEK) line.

23. Is this a pooled unit? [ ] Yes [X] No

24. Unitization Docket No.:

25. Are you applying for Substandard Acreage Field? [ ] Yes (attach Form W-1A) [X] No

FIELD INFORMATION — List all fields of anticipated completion including Wildcat. List one zone per line.

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	00004001	WILDCAT	Oil or Gas Well	6200	5560.80	2
02	52285150	LAURA THOMSON (4700)	Gas Well	4704	0.00	1
02	52285332	LAURA THOMSON (5600)	Gas Well	5634	0.00	1
02	52285498	LAURA THOMSON (5600 #3)	Oil or Gas Well	5545	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Remarks

Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

Christina Daniel — Name of filer
Sep 18, 2009 — Date submitted

(512)4783456 — Phone
christina@milconinc.com — E-mail Address (OPTIONAL)

RRC Use Only Data Validation Time Stamp: Sep 21, 2009 10:25 AM('As Approved' Version)

Permit Status: Approved

The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

W-1 Supplemental Field Data
07/2004

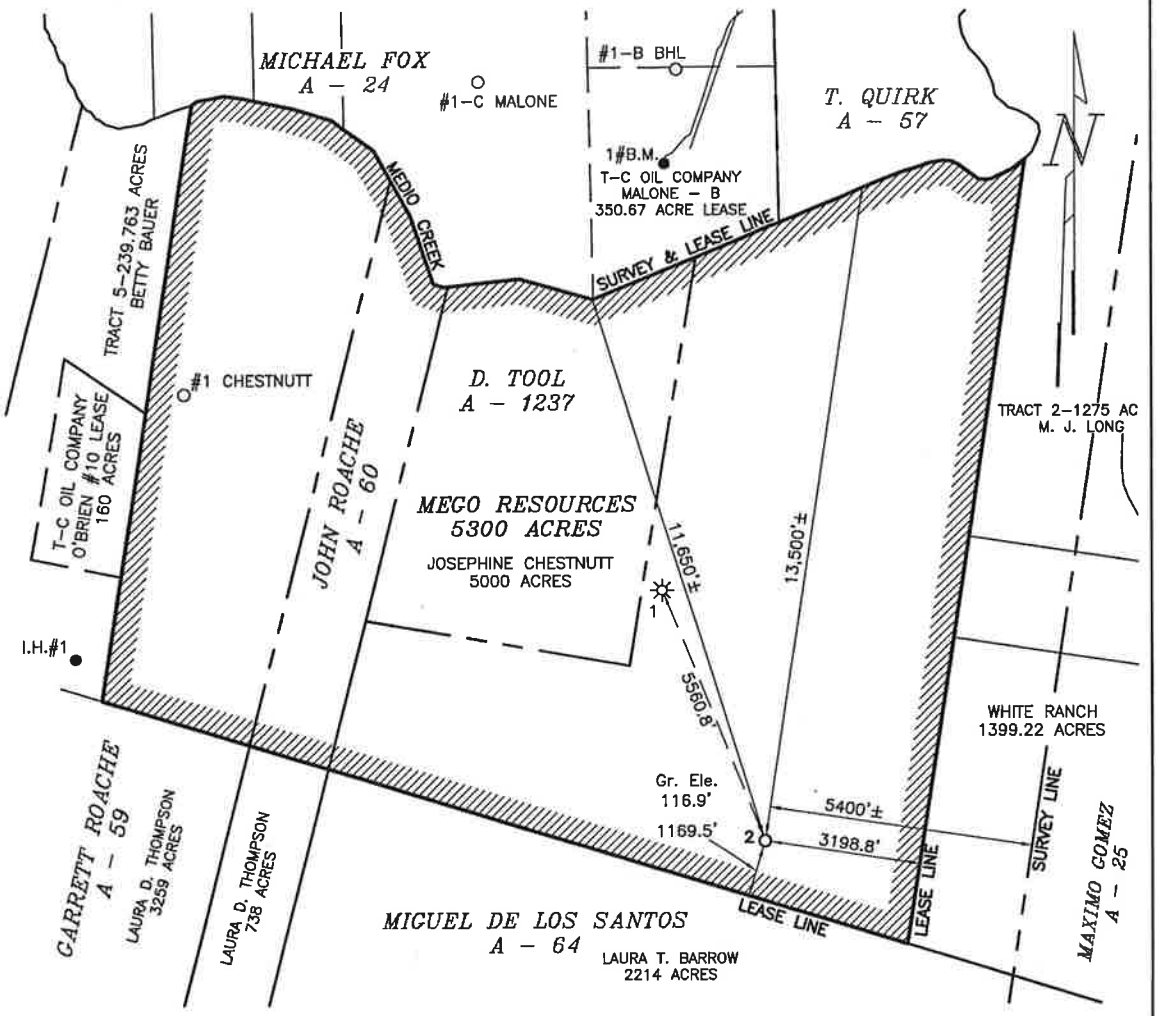
Permit # 685287

Approved Date: Sep 21, 2009

1. RRC Operator No.	2. Operator's Name (exactly as shown on form P-5, Organization Report)	3. Lease Name	4. County
559362	MEGO RESOURCES, LLC	SASSER	BEE

ADDITIONAL FIELD INFORMATION (continued from Page 1)

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
02	52285166	LAURA THOMSON (4850)	Gas Well	4853	0.00	1
02	52285300	LAURA THOMSON (5360 F-40)	Oil or Gas Well	5373	0.00	1
02	52285830	LAURA THOMSON (5600 #4 SAND)	Oil or Gas Well	5530	0.00	1



MEGO RESOURCES – SASSER – WELL NO. 2 X: 2485663.00, Y: 170984.00 NAD 27, Texas South Central Zone. Is located 3198.8' from the east lease line and 1169.5' from the south lease line, and 5400'± from the east survey line and 13,500'± from the north survey line and lease line.

Location is approximately 12 miles northeast of the town of Skidmore.

There may be existing pipelines not shown on this plat. Use the Texas One Call System to locate pipelines before performing any excavation on this property.

PLAT SHOWING LOCATION MADE FOR
MEGO RESOURCES
SASSER – WELL NO. 2
OUT OF THE
MIGUEL DE LOS SANTOS SURVEY, ABSTRACT 64
BEE COUNTY, TEXAS
SCALE 1" = 3000 FEET

This plat meets the requirements for filing a well location plat with the Texas Railroad Commission and is intended solely for that purpose. This plat is not intended to represent a boundary survey and does not meet the requirements for boundary surveys in the State of Texas, Prepared this the 15th day of September, 2009.

King & Petrus, Inc.
P. O. Box 606
Sinton, Texas 78387
Phone 361–364–2622
Fax 361–364–2641
C:\MRJ\19900\19978
C:\MAPDATA\DATA\WHITING\WAS

STATE OF TEXAS
REGISTERED
J. L. PETRUS JR.
1907
PROFESSIONAL
LAND SURVEYOR

Registered Prof. Land Surveyor
Registration No. 1907

MAP ID #56

API# 42-025-01260
DRY HOLE

34420

(56)

Please Refer to File No.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Orion Oil Co. & Edwin L. Cox Address 425 Wilson Bldg., Corpus Christi, Texas

Sec. No. Block No. Survey Miguel De Los Santos County Bee

Well No. 1 Name of Lease Josephine Chesnutt No. of Acres 600

Name of Field in which well is located Wildcat Date well was plugged May 28, 1961

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of Orion Oil Co. & Edwin L. Cox

Character of Well at the time of completion: Oil _____ (Initial Production) bbls; Gas _____ (Initial Production) Cu. Ft.; Dry Yes

Amount well producing when plugged: Oil ----- bbls; Gas ------ Cu. Ft.; Water ------ bbls.

Has this well ever produced **oil** or **gas**? No

Total Depth 5780 feet. Top of each producing sand None feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Pump

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? No

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
8 5/8"	100'		None		100'		

Show depth found and thickness of all water, oil and gas formations

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: Cement plugs and mud

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:

Amerada Petroleum Corp., Houston, Texas
Humble Oil & Refining Co., Corpus Christi, Texas
Carrl Oil Co., Corpus Christi, Texas
Josephine Chesnutt, Kenedy, Texas

RECEIVED
JUN - 3 1961
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO DISTRICT

Was notice given before plugging to all available adjacent lease owners as required by Rule 10? Yes

I, Frank F. Herrington, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name Frank F. Herrington Title Agent

Subscribed and sworn to before me this 2nd day of June, 1961

MARY ANN DEVINEY
Notary Public, in and for Nueces County, Texas

Mary Ann Deviney
Notary Public Nueces County, Texas

Correspondence regarding this well should be addressed to:

Name Orion Oil Company Address 425 Wilson Bldg., Corpus Christi, Texas

025-01260

34420

CEMENTING AFFIDAVIT

THE STATE OF TEXAS I
COUNTY OF BEXAR I

Before me, the undersigned authority, on this day personally appeared W. K. WILLIAMS of [redacted]HORN DRILLING CO., who after having been by me duly sworn on his oath, deposes and says:

That they cemented to abandon the Josephine Chesnutt well No. 1, located Beeville area, Bee County, Texas, as follows:

38 sacks cement from 1600 feet back to 1500 feet;

40 sacks cement from 158 feet back to 58 feet.

Above work was done for Orion Oil Company, et al, Wilson Building, Corpus Christi, Texas.

[redacted]HORN DRILLING CO.

By: W. K. Williams

SUBSCRIBED & SWORN to before me this 29th day of May, 19 61.

Notary Public in and for Bexar County, Texas.

IRENE B. ZOELLER
Notary Public, Bexar County, Texas

34420

Please Refer to File No. ____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company Orion Oil Co. & Edwin L. Cox Address 425 Wilson Bldg., Corpus Christi, Texas

Sec. No. ____ Block No. ____ Survey Miguel De Los Santos County Bee

Well No. 1 Name of Lease Josephine Chesnutt No. of Acres 600 Elev. 98' Gr.

Name of Field in which well is located Wildcat

Located 15 Miles SE Direction from Beeville (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Orion Oil Co. & Edwin L. Cox

Drilling Commenced May 18, 1961. Drilling Completed May 28, 1961

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 5780'

Date you wish to Plug May 28, 1961.

Name of Party Plugging Well Horn Drilling Co. Address San Antonio, Texas

Correspondence regarding this well should be sent to: Name Orion Oil Company

Address 425 Wilson Bldg., Corpus Christi, Texas

Initial Production of Gas: Volume (MCF) ---- 24 hrs. Pressure ____ lbs. per square inch

Initial Production of Oil: Barrels ------

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as to total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

RECEIVED
JUN - 3 1961
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

General Remarks: ____

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

SAN ANTONIO 5, TEXAS
CA 6-0978

HORN DRILLING CO.

ORION OIL COMPANY and EDWIN L. COX
#1 Josephine Chesnutt well
Bee County, Texas

Well Commenced: 5/18/61 Well D. & A.: 5/28/61

DRILLERS' LOG

0 - 116'	Surface
116 - 1575'	Sand w/stks. shale
1575 - 2800'	Shale w/stks. sand
2800 - 3235'	Shale
3235 - 3990'	Sand w/stks hard shale
3990 - 4672'	Shale w/stks sand
4672 - 5635'	Sandy shale
5635 - 5680'	Sand w/stks. shale
5680 - 5780'	Sandy shale

Total depth: 5780 feet.

THE STATE OF TEXAS
COUNTY OF BEXAR

I, W. K. WILLIAMS, of HORN DRILLING CO., being first duly sworn on oath, state that I have knowledge to the facts and matter herein set forth and that the same are true and correct to the best of my knowledge.

HORN DRILLING CO.

By: W. K. Williams
W. K. Williams

SUBSCRIBED and SWORN to before me this 1st day of June, 1961.

Notary Public, Bexar County, Texas.

DENNIS B. ZOELLER
Notary Public, Bexar County, Texas

34420

Application to Drill
Deepen or Plug Back

Form
Rev.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK Drill

DATA TO BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE

ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION

(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is: THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 330 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease ---- feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date May 9, 1961

Name of company or operator

Name Orion Oil Company and Edwin L. Cox

Address 425 Wilson Building

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Josephine Chesnutt

Number of Acres 600 Well No. 1

Number of wells on lease None

Elevation 98.4' (Ft. above sea level) Section No. ____ Block No. ____

Survey Miguel de Los Santos, A-64

Zone or Reservoir Frio - Vicksburg

To be Located in Wildcat Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) 1720' from the east line

Bee County

15 Miles Southeast direction from

Beeville nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling immediately

Depth to which you propose to drill 6000 feet.

Date work will start deepening ____

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

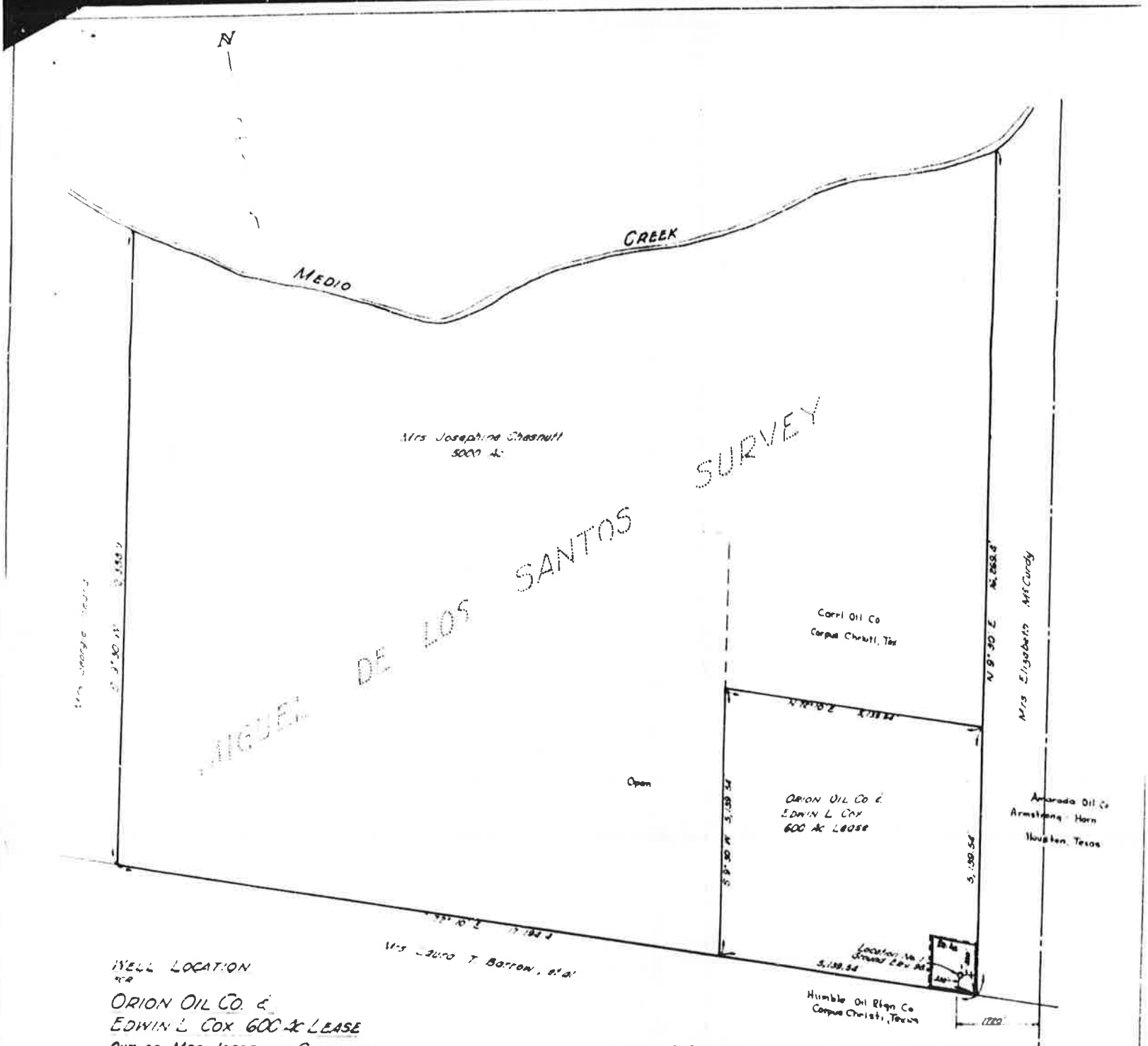
Name ____

Address ____

RECEIVED
MAY 10 1961
OIL & GAS DIVISION
REFUGIO, TEXAS

NOTICE: Before sending in this form be sure that you have given all information requested. Delay and correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE



WELL LOCATION

ORION OIL CO. &
EDWIN L. COX 600 Ac LEASE
OUT OF MRS JOSEPHINE CHESNUTT
5000 Ac TRACT
BEE COUNTY, TEXAS

I, R L Young, being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct

Name R L Young Title Texas State Licensed Land Surveyor

Subscribed and sworn to before me this 9th day of May, 1961.

Notary Public Nueces County, Texas

MAP ID #57

API# 42-025-02450
DRY HOLE

Please Wire Permit 4224 agreed 9-23-65 2:00 PM (57)

Application to Drill, Deepen or Plug Back

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED
SEP 23 1965
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Drill

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK
SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF THE DISTRICT IN WHICH LAND IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEAR AND LEGIBLE.
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 910 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 1200 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? - NO

Date September 22, 19 65

Name of company or operator

Name Harkins & Company

Address P. O. Box 1490.

City Alice, Texas 78332

Description of farm or lease:

Name of Lease Josephine Chesnutt

Number of Acres 300 Well No. 2

Number of wells on lease One

Elevation 112 (Est.) (Ft. above sea level) Section No. ____ Block No. ____

Survey M. De Los Santos A-64

Zone or Reservoir Vicksburg

To be Located in Wildcat Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) 1650' SL & 2300' EL

Bee County

10½ Miles NE direction from

Papalote nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling Upon receipt of Permit

Depth to which you propose to drill 6500 feet.

Date work will start deepening ____

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name ____

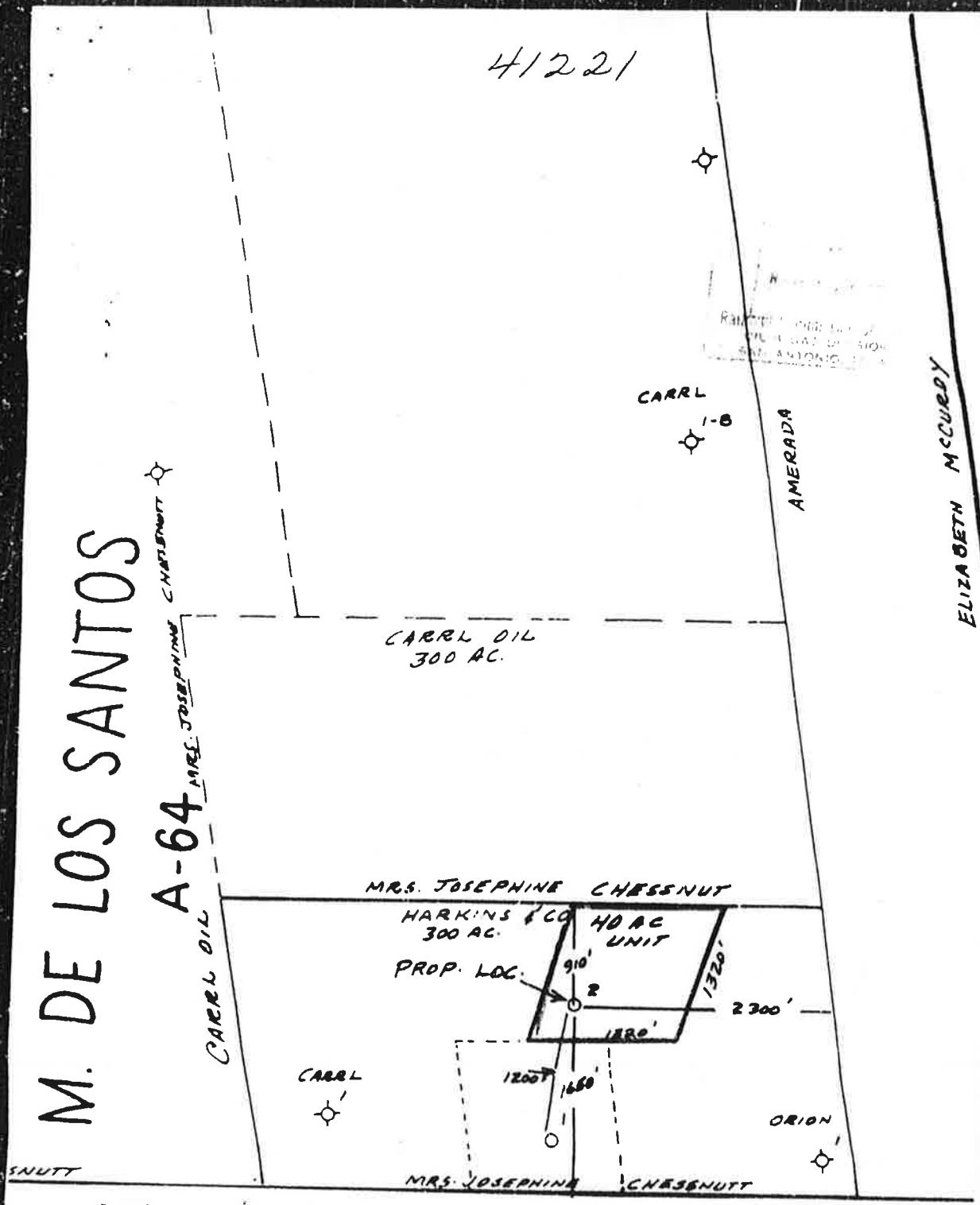
Address ____

RECEIVED
SEP 24 1965
O. G.
AUSTIN, TEXAS

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

41221



BEE COUNTY, TEXAS
M. DE LOS SANTOS SURV.
A-64
1" = 1000'

HUMBLE
MRS. LAURA THOMPSON

15-B

LOCATION PLAT
HARKINS & CO
[illegible] JOSEPHINE CHESSNUT

Please Refer
to File No.

41221

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED

Form 2A
Application
To Plug and
Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company Harkins & Company Address P. O. Box 1490, Alice, Texas

Sec. No. Block No. Survey A-64 M. de los Santos County Bee

Well No. 2 Name of Lease Josephine Chesnutt No. of Acres 600 Elev. 109.5

Name of Field in which well is located Wildcat

Located 11 Miles NE Direction from Papalote (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Harkins & Co.

Drilling Commenced 9/26 , 19 65 Drilling Completed 10/3 , 19 65

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 5660

Date you wish to Plug 10/3 , 19 65

Name of Party Plugging Well Halliburton Co. Address Beeville, Texas

Correspondence regarding this well should be sent to: Name Harkins & Company

Address P. O. Box 1490, Alice, Texas 78332

Initial Production of Gas: Volume (MCF) 24 hrs. Pressure lbs. per square inch

Initial Production of Oil: Barrels

Give notice before Plugging to all available Lease Owners, as required by Rule 210.

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks:

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
			CERTIFIED DRILLERS LOG ATTACHED

Method of shutting off water Cm't Plugs & Csg. Is water completely shut off? Yes

Amount of water with oil - per cent -

I, P. W. Leary being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

P. W. Leary

Representative of Company.

Subscribed and sworn to before me this 6th day of October, 19 65

Notary Public

County, Texas.

CERTIFIED DRILLERS LOG

RECEIVED
OCT 1965

Harkins & Company
Josephine Chesnutt No. 2
Bee County, Texas

LOCATION: 1650' SL & 2300' EL of the Josephine Chesnutt 600 Ac. lease. Scales 18,900' SL & 3750' EL of the Miguel de los Santos Survey A-64. Approx. 11 miles NE of Papalote, Texas.

ELEVATION: GL 109.5 DF 119.5 DB 122

TEXAS WATER COMMISSION: 1550'

SPUDDED: September 26, 1965.

COMPLETED: October 3, 1965

0	350	Sd. & Sh.
350	2671	Sd. & Sh.
2671	3329	Shale
3329	3810	Sd. & Sh.
3810	5356	Shale
5356	5650	Shale & Sd. Strks.
	5650	Total Depth

Ran 10-3/4" 32.75# Csg. set @ 330' cmt'd w/200 sxs. Common 4% gel, 125 sxs. Common 2% Cacl.

Ran Schlumberger Induction log, Sonic (B.C.) Log and Formation Tester. (Note: Both F.T.'s dry test.)

Set Cement plugs 1750'-1623', 380'-274', 10-0'.

This is to certify that the foregoing log is true and correct, to the best of my knowledge, showing the formation encountered and depth drilled on the No. 2 Josephine Chesnutt, Bee County, Texas drilled by Harkins & Company.

P. W. Leary

4/221

RECEIVED
OCT 7 1965
Railroad Commission
Oil & Gas Div.

AFFIDAVIT ON PLUG TO ABANDON WELL

STATE OF TEXAS }
SS
COUNTY OF Refugio } CS-257888

I, T.M.McLemore, being of lawful age and having full knowledge of the facts hereinbelow set out, do state:

That I am an employee of Halliburton Company, of Duncan, Oklahoma, employed as a "Cementer", and as such employee am engaged in the operation of the Halliburton Company's equipment employed in the cementing of wells being drilled for oil and/or gas;

That on the 3 day of October, 19 65, I operated the aforesaid cementing equipment under the direction, supervision and control of Harkins & Co. (customer) in the pumping of cement into said Well Number 2 situated on the Chestnut Lease in Bee County, Texas, which, according to the customer was for the purpose of plugging and abandoning said well;

That according to the information furnished me by the customer, his agent or representative, a cement plug was placed in said well from

1750' depth to the 1623' depth

380' depth to the 274' depth

_____ depth to the _____ depth

AFFIANT: [signature]
Halliburton Company employee

STATE OF TEXAS }
SS
COUNTY OF Refugio }

OCT 5 1965

BEFORE ME, the undersigned authority, on this day personally appeared T.M.McLemore, known to me to be the person whose name is subscribed to this statement; who, after being duly sworn upon oath states: That to the best of his knowledge and belief the facts as recited above are true and correct.

Given under my hand and seal this 4 day of October, 19 65.

(Notary Seal)

[signature]
Notary Public, in and for
Refugio County, Texas

Please Refer to File No. 41221

RECEIVED
OCT 7 1965
Railroad Commission of Texas
SAN ANTONIO, TEXAS

Form 4
Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Harkins & Company Address P. O. Box 1490, Alice, Texas

Sec. No. ____ Block No. ____ Survey M. de los Santos A-64 County Bee

Well No. 2 Name of Lease Josephine Chesnutt No. of Acres 600

Name of Field in which well is located Wildcat Date well was plugged Oct. 3, 1965

Form 1 (Notice of Intention to Drill) Was Filed in Name of Harkins & Company

Character of well at the time of completion: Oil -0- (Initial Production) bbls; Gas - (Initial Production) Cu. Ft.; Dry Yes

Amount well producing when plugged: Oil - bbls; Gas - Cu. Ft.; Water - bbls.

Has this well ever produced oil or gas? No

Total Depth 5660 feet. Top of each producing sand None feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Pump

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? Yes

Plugs 1750-1623, 380-274', 10-0'

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
10-3/4"	330	1			330	-	

Show depth found and thickness of all water, oil and gas formations None

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: Hole filled w/heavy mud laden fluid contained by cement plugs.

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:

Humble Oil & Ref. Co. - Corpus Christi, Texas
Carrl Oil Co. - Corpus Christi, Texas
Amerada Pet. Corp. - San Antonio, Texas

RECEIVED
OCT 8 1965

Was notice given before plugging to all available adjacent lease owners as required by rule 10? Yes

I, P. W. Leary, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name P. W. Leary, Title Production Clerk

Subscribed and sworn to before me this 8th day of October 19 65

Notary Public Jim Wells, County, Texas

Correspondence regarding this well should be addressed to:

Name Harkins & Company Address P. O. Box 1490, Alice, Texas

MAP ID #58

API# 42-025-02449
OIL WELL
PLUGGED

02449

000073 0933

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9-1-67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
2. RRC Lease or Id. Number: 03888
3. FIELD NAME (as per RRC Records): Laura Thompson (5600#4 Sand)
4. LEASE NAME: Josephine Chesnutt
5. Well Number: 1
6. OPERATOR: Harkins & Company
7. ADDRESS: P. O. Box 1940 Alice, Texas 78332
8. SURFACE LOCATION: 2630 FEET FROM EAST LINE, AND 467 FEET FROM SOUTH LINE
9. SECTION, BLOCK, AND SURVEY: M. de Los Santos A#64
10. County: Bee
11. Date Drilling Permit Issued: 8-25-65
12. Date Drilling Commenced: 9-16-65
13. Date Drilling Completed: 9-24-65
14. Date Well Plugged: 5-29-74
15. Type of Well (Oil, Gas, Dry)*: Oil
16. Type of Completion (Single, Dual, Etc.): Single
17. Total Depth: 6015'
18. FORM W-1 (Intention to Drill) Filed in Name of: Harkins & Company
19. Manner of Placement

			TOP	BOTTOM	TYPE
PLUG #1	20	SACKS	5490	5590	Common
PLUG #2	20	SACKS	1500	1600	Common
PLUG #3	50	SACKS	322	422	Common
PLUG #4	5	SACKS	4	14	Common

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]
21. How was Mud applied? Pump
22. Mud Weight: 9.5 LBS/GAL
23. Depth of Deepest Fresh Water: 1550 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]
25. If NO, Explain:
26. Name and Address of Party Plugging Well: Culberson Well Service, Inc. - Box 2266 - Victoria, Texas 77901
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
10-3/4	357		357	
5-1/2	5830		5356.58	
2-3/8	5557		-0-	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: Exxon Company, U. S. A. - Wilson Tower Corpus Christi, Texas 78401
29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ]

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Gene Allen — REPRESENTATIVE OF COMPANY
Prod. Clerk — TITLE
6-5-74 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED R. R. C. OF TEXAS JUN 07 1974

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS _____

C ... to this cancel date is required to be given to the top of the well

0 0 0 0 7 3 0 9 3 4

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thompson (5600#4 Sand)	*2. RRC District 2
*3. Operator Harkins & Co.	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Josephine Chesnutt	*6. Well Number 1
*7. Location (Section, Block, and Survey) M. de Los Santos A-64	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	5/28/74	5/28/74	5/29/74	5/29/74		
*20. Size of Hole or Pipe in which Plug Placed (inches)	5½"	5½"	5½" & 10-3/4"	10-3/4"		
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5590'	1600'	422'	14'		
22. Sacks of Cement Used (each plug)	20	20	50	5		
23. Slurry Volume Pumped (cu. ft.)	23.6	23.6	59.0	5.9		
24. Calculated Top of Plug (ft.)	5490'	1500'	322'	4'		
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
RAILROAD COMMISSION OF TEXAS
JUN 07 1974
[redacted], TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

*Instructions: Items to be completed by Operator. Items not so designated shall be completed by Cementing Company

26. Remarks:

Circ well w 9.5# mud.
Shot csg @ 510', 400', & 372'.
Rec'd 373.42' of 5½" csg.
Cut off 4' below grd level, capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J. W. Culberson, Jr.
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr., Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

June 3, 1974
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Annie Deer
*Signature of Operator or Authorized Representative

Annie Deer, Prod. Clerk
*Name of Person and Title (type or print)

Harkins & Company
*Operator

P. O. Box 1940
*Street Address or P.O. Box

Alice, Texas 78332
*City, State Zip Code

*Telephone 512 664-3427
Area Code

6-5-74
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

MAP ID #59

API# 42-025-02451
OIL WELL
PLUGGED

(59)

Plugging Record

P/

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

0 0 0 4 1 7 5 8

Form W-3
Rev. 9-1-67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
4. RRC Lease or Id. Number: 04056
5. Well Number: 21
10. County: BEE
11. Date Drilling Permit Issued: 3-18-66
12. Date Drilling Commenced: 3-31-66
13. Date Drilling Completed: 5-1-66
14. Date Well Plugged: 7-20-71

2. FIELD NAME (as per RRC Records): LAURA THOMSON, NORTH (5600 No. 3)
3. LEASE NAME: LAURA T. BARROW B
6. OPERATOR: HUMBLE OIL + REFINING COMPANY
7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
8. SURFACE LOCATION: 467 FEET FROM SW OF NE LINE, AND 5450 FEET FROM SE OF NW LINE
9. SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS (A-64)
15. Type of Well (Oil, Gas, Dry): OIL
16. Type of Completion (Single, Dual, Etc.): SINGLE
17. Total Depth: 5630
18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL + REFINING COMPANY
19. Manner of Placement

PLUG #1	8	SACKS	TOP	5345	BOTTOM	5514	TYPE	CLASS A
PLUG #2	1	SACKS	TOP	5	BOTTOM	15	TYPE	CLASS A
PLUG #3	7	SACKS	TOP	5	BOTTOM	50	TYPE	CLASS A
PLUG #4		SACKS	TOP		BOTTOM		TYPE	

20. Was Well filled with Mud-Laden Fluid according to the regulations of the Railroad Commission: YES [X] NO
21. How was Mud applied? PUMP
22. Mud Weight: 10.0 LBS GAL
23. Depth of Deepest Fresh Water: 1600 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO
25. If NO, Explain
26. Name and Address of Party Plugging Well: FISH OIL WELL SERVICING COMPANY, P.O. BOX 1057, BEEVILLE, TEXAS 78102
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
7 5/8"	530.02		530.02	
2 7/8"	5620.65		5620.65	
1 1/4"	4670.00		NONE	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

RECEIVED
R.R.C. OF TEXAS
JAN 10 1972
O.G.
SAN ANTONIO, TEXAS

29. Was Notice given before Plugging to each of the above and RRC District Office?
YES [X] NO

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle — REPRESENTATIVE OF COMPANY
PRORATION SPECIALIST — TITLE
1-6-72 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

14(B)2 Canceled

DR-38

*All Dry Holes, Fill in Reverse Side

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

0 0 3 2 1 7 5 9

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Well Name (as per RRC Records or Wildcat)
LAURA THOMSON, NORTH (5600 No. 3)

*2. RRC District
2

*3. Operator
HUMBLE OIL & REFINING COMPANY

*4. County
BEE

*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s)
LAURA T. BARRON B' 04056

*6. Well Number
21

*7. Location (Section, Block, and Survey)
M. DE LOS SANTOS (A-64)

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry			1.3			
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

RECEIVED
R.R.C. OF TEXAS
JAN 10 1972
S.A.
SAN ANTONIO, TEXAS

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	7-19-71	7-20-71	7-20-71			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8 Csg	2 7/8" Csg	2 7/8 X 7 5/8" annulus			
*21. Depth to Bottom of ~~XXXXXXXXXXXXXX~~ Plug	5514	15'	50			
22. Sacks of Cement Used (each plug)	8	1	7	No casing pulled.		
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)	5345	5	5			
*25. Measured Top of Plug (if tagged) (ft.)						

R-01056

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

— OVER —

* Designates Items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26 Remarks:	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Signature of Cementer or Authorized Representative

Howard E. Fish, President

Name of Person and Title (type or print)

Fish Oil Well Servicing Co.

Cementing Company

P. O. Box 1057

Street Address or P.O. Box

Beeville, Texas 78102

City, State Zip Code

Telephone 512 358-2505
Area Code

11-27-71

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

HUMBLE OIL & REFINING CO.

*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

*City, State Zip Code

*Telephone 512 884-4571
Area Code

1-6-72

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 7/5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME as per RRC Records or Wildcat
Laura Thomson, North (5600 #3)

2. LEASE NAME
Laura T. Barrow "B"

3. OPERATOR
Humble Oil & Refining Company

4. ADDRESS
Wilson Tower, Corpus Christi, Texas

5. If Operator has changed within last 60 Days — Give former Operator

6. LOCATION (Section, Block and Survey)
M. DeLos Santos

12. If Workover — Give former Field (with Reservoir)

13. Type of Electric or other Log run

7. RRC District
Two

8. RRC Lease Number
04056

9. Well Number
21

10. County
Bee

11. Purpose of Test
Initial Potential [ ]
Retest [X]
Reclass [ ]

14. Completion Date
5-1-66

Section I — POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping – Size & Type of Pump)			18. Choke Size
5-16-68	24	Gas Lift			3/16

19. Production for Test Period	Oil – BBLS	Gas – MCF	Water – BBLS	Gas – Oil Ratio	Flowing Tubing Pressure
		29	2	4143	80 PSI
20. Calculated 24 Hour Rate	Oil – BBLS	Gas – MCF	Water – BBLS	Oil Gravity – API – 60°	Casing Pressure
	7	29	2	36.3	730 PSI

21. Was Swab or Artificial Flowing Device Used During this Test? Yes [X] No [ ]

22. Oil Produced Prior to Test (New & Reworked Wells)

23. Injection Gas–Oil Ratio 4714

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: Oil potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

M. D. McNair
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified

Date of Notification:

None

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R. H. Bomar — Supervisor — May 24, 1968
REPRESENTATIVE OF COMPANY — TITLE — DATE

REMARKS

P.T. 4-16-68 @ 7M Ext

011 0072

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev 7/1/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1 FIELD NAME (as per RRC Records or Wildcat): Laura Thomson, North (5600' #3)	2. LEASE NAME: Laura T. Barrow "B"
3. OPERATOR: Humble Oil & Refining Company	7. RRC District: 2
4 ADDRESS: Wilson Tower, Corpus Christi, Texas, 78401	8 RRC Lease Number: 04056
5 If Operator has changed within last 60 Days — Give former Operator: --	9 Well Number: 21
6 LOCATION (Section, Block, and Survey): M. De Los Santos (A-64)	10 County: Bee
12 If Workover — Give former Field (with Reservoir)	11 Purpose of Test: Initial Potential [ ] Retest [X] Reclass [ ]
13 Type of Electric or other Log run	14 Completion Date: 5-1-66

Section I — POTENTIAL TEST DATA

15 Date of Test: 4-25-67	16 No. of Hours Tested: 24	17 Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump): Gas Lift				18 Choke Size: 1/4
19 Production for Test Period	Oil - BBLS: 5	Gas - MCF: 19	Water - BBLS: 4	Gas - Oil Ratio: 3800	Flowing Tubing Pressure: 325 PSI	
20 Calculated 24 Hour Rate	Oil - BBLS: 5	Gas - MCF: 19	Water - BBLS: 4	Oil Gravity - API - 60°: 36.3	Casing Pressure: 800 PSI	
21 Was Swab or Artificial Flowing Device Used During this Test? Yes [X] No [ ]	22 Oil Produced Prior to Test (New & Reworked Wells): 80 bbls.				23 Injection Gas-Oil Ratio: 11,600	

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

✓ C. C. Beckett

Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified: NONE

Date of Notification:

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R. H. Bomar — REPRESENTATIVE OF COMPANY

Supervisor — TITLE

May 1, 1967 — DATE

REMARKS: See tubing setting back of form. Tubing installed for gas lift.

R. T. #21 @ 5M 4-25-67 15X

'011 01073

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev 7/1/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District: 2
8. RRC Lease Number: 04056
9. Well Number: 21
10. County: BEE
11. Purpose of Test: Initial Potential ☐ Retest ☒ Reclass ☐
14. Completion Date: 5-1-66

1. FIELD NAME (as per RRC Records or Wildcat): LAURA THOMSON (NORTH (5600 ft))
2. LEASE NAME: LAURA T. BARROW 'B'
3. OPERATOR: HUMBLE OIL & REFINING COMPANY
4. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401
5. If Operator has changed within last 60 Days -- Give former Operator:
6. LOCATION (Section, Block, and Survey): M. DE LOS SANTOS (A-64)
12. If Workover --Give former Field (with Reservoir):
13. Type of Electric or other Log run:

Section I

POTENTIAL TEST DATA

15. Date of Test: 5-16-67	16. No. of Hours Tested: 24	17. Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump): GAS LIFT				18. Choke Size: 4/64
19. Production for Test Period	Oil - BBLS: 11	Gas - MCF: 28	Water - BBLS: 5	Gas - Oil Ratio: 2493	Flowing Tubing Pressure: 130 PSI	
20. Calculated 24 Hour Rate	Oil - BBLS: 11	Gas - MCF: 28	Water - BBLS: 5	Oil Gravity - API - 60°: 36.3	Casing Pressure: 800 PSI	
21. Was Swab or Artificial Flowing Device Used During this Test? Yes ☒ No ☐	22. Oil Produced Prior to Test (New & Reworked Wells):				23. Injection Gas-Oil Ratio: 905	

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

M. D. McNAIR
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified: NONE

Date of Notification:

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

J. E. Brusenhan — J. E. BRUSENHAN — REPRESENTATIVE OF COMPANY
ACCOUNTANT — TITLE
5-24-67 — DATE

REMARKS

04056

011 0074

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev 7/5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District: 2
8. RRC Lease Number: 04056
9. Well Number: 21
10. County: Bee
11. Purpose of Test: Initial Potential [ ] Retest [X] Recless [ ]

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson, North (5600 #3)
2. LEASE NAME: Laura T. [redacted] "B"
3. OPERATOR: Humble Oil & Refining Company
4. ADDRESS: Wilson Tower, Corpus Christi, Texas, 78401
5. If Operator has changed within last 60 Days -- Give former Operator:
6. LOCATION (Section, Block, and Survey): M. de Los Santos
12. If Workover --Give former Field (with Reservoir):
13. Type of Electric or other Log run: Neutron
14. Completion Date: 5-1-66

Section I

POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump)	18. Choke Size
7-4-67	24	Gas Lift	1/4

	Oil - BBLS	Gas - MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19. Production for Test Period	18	46	6	2556	150 PSI
20. Calculated 24 Hour Rate	18	46	6	Oil Gravity - API - 60° 36.3	Casing Pressure 750 PSI

21. Was Swab or Artificial Flowing Device Used During this Test? Yes [X] No [ ]
22. Oil Produced Prior to Test (New & Reworked Wells):
23. Injection Gas-Oil Ratio: 5444

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

M. D. McNair
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified:

Date of Notification:

RECEIVED
JUL 11 1967
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R. H. Bomar — REPRESENTATIVE OF COMPANY
Supervisor — TITLE
7-10-67 — DATE

REMARKS

R.T. #21 @ 18N EAP 7-4-67 #7X

04056

011 00870

Application to Drill, Deepen or Plug Back

Form 1
Rev. 4-63

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK — Drill

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE.

ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.

(Black Ink or Black Typewriter Ribbon Preferable)

SPS

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 467 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 1624 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR IN WHICH THIS PERMIT IS REQUESTED? No

Date March 16, 19 66

Name of company or operator

Name Humble Oil & Refining Company

Address Wilson Tower

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Laura T. Barrow "B"

Number of Acres 6,127.5 Well No. 21

Number of wells on lease 14

Elevation (Ft. above sea level) Section No. Block No.

Survey M. de Los Santos Survey (A-64)

Zone or Reservoir 5600' No. 4

To be Located in Laura Thomson Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.)

Bee County

8 Miles NE direction from

Papalote, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling As soon as permitted

Depth to which you propose to drill 6,000 feet.

Date work will start deepening

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name

Address

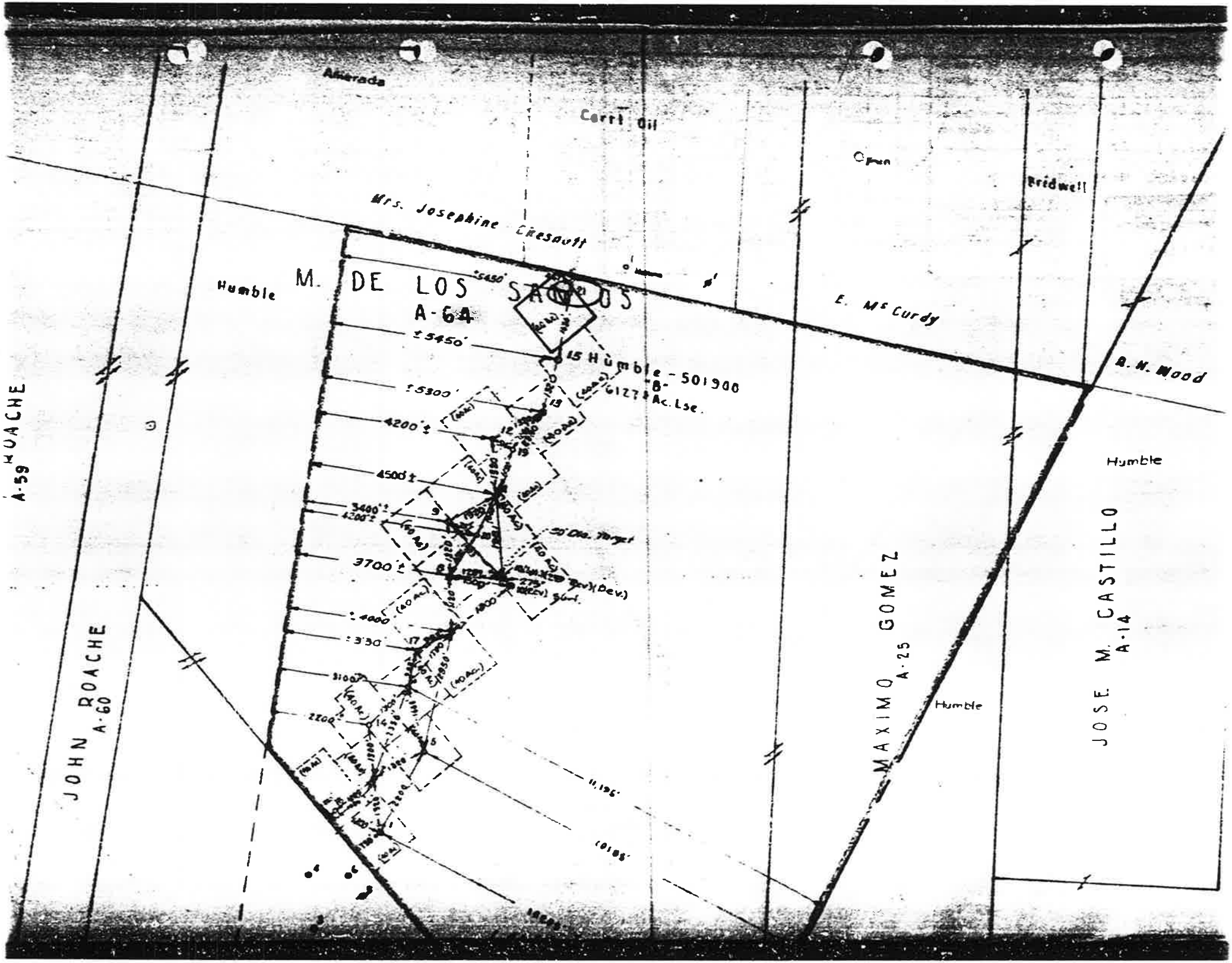
RECEIVED
MAR 17 1966
Railroad Commission of Texas
OIL & GAS DIVISION
CORPUS CHRISTI, TEXAS

RECEIVED
R. C. OF TEXAS
MAR 18 1966

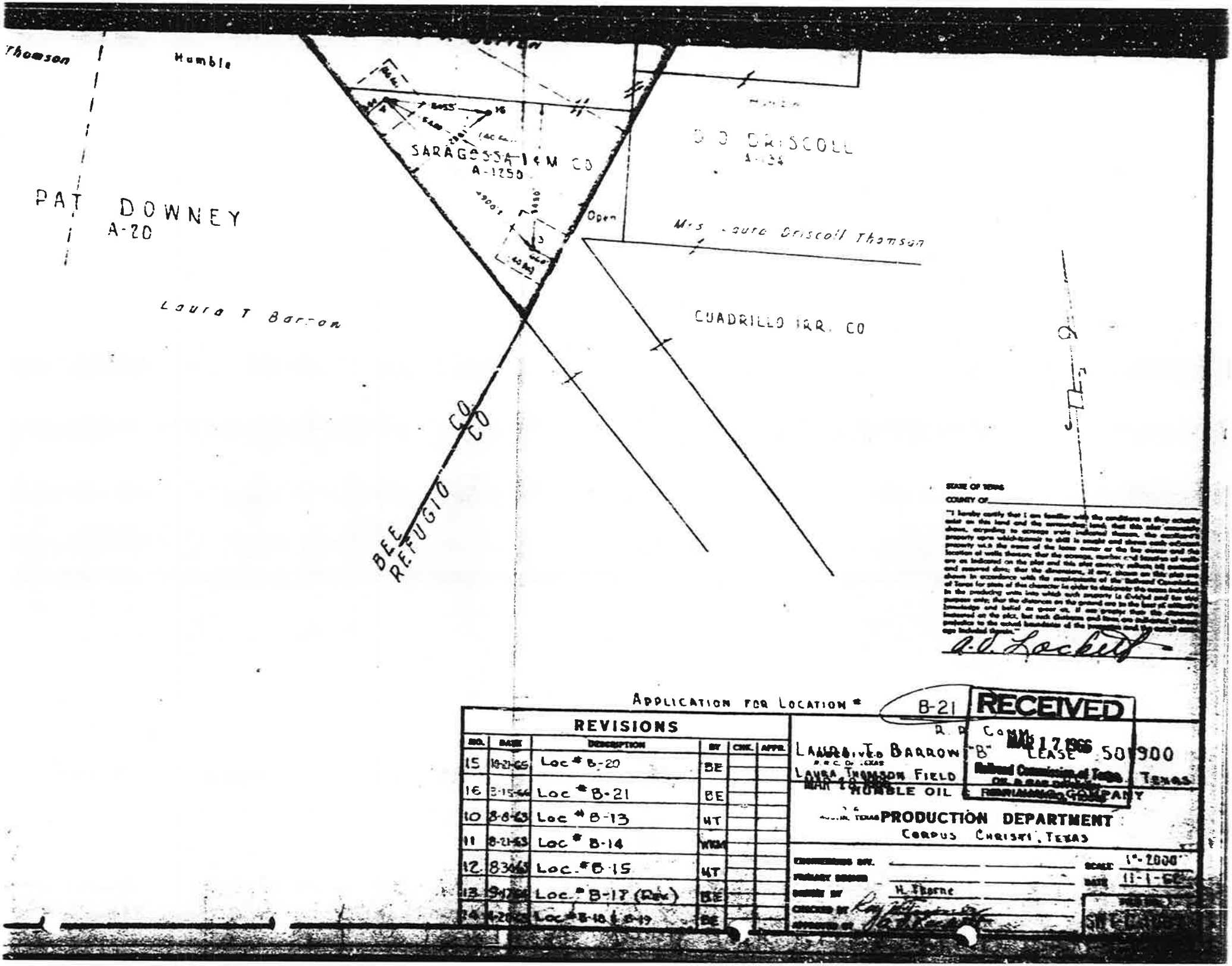
Loc: 1624' NE of the SE line of the lease & 525' NE of the NW line of the lease

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE



Alterada
Carrt Oil
Opun
Bridwell
Mrs. Josephine Chesnutt
Humble
M. DE LOS SANTOS
A-64
E. McCurdy
A. H. Wood
Humble - 501900
6127 Ac. Lse.
±5450'
±5300'
4200'±
4500'±
3400'±
4200'±
3700'±
±4000
±3130
3100'
2200'
50' Dia. Target
Humble
Humble
JOHN ROACHE
A-60
A-59 ROACHE
MAXIMO GOMEZ
A-25
JOSE M. CASTILLO
A-14


Thomson
Humble
SARAGOSSA I & M CO
A-1250
D D DRISCOLL
PAT DOWNEY
A-20
Open
Mrs. Laura Driscoll Thomson
Laura T Barron
CUADRILLO IRR. CO
BEE
REFUGIO
CO
CO
STATE OF TEXAS
COUNTY OF
A. D. Lockett
APPLICATION FOR LOCATION # B-21
RECEIVED
MAR 17 1966
Oil & Gas Division
REVISIONS
NO. | DATE | DESCRIPTION | BY | CHK. | APPR.
15 | 10-21-65 | Loc # B-20 | BE
16 | 3-15-66 | Loc # B-21 | BE
10 | 8-8-63 | Loc # B-13 | HT
11 | 8-21-63 | Loc # B-14 | HT
12 | 8-24-63 | Loc # B-15 | HT
13 | 9-17-63 | Loc # B-17 (Rev.) | BE
14 | 9-20-63 | Loc # B-18 & B-19 | BE
LAURA T. BARRON "B" LEASE 50,900
LAURA THOMSON FIELD
HUMBLE OIL & REFINING COMPANY
PRODUCTION DEPARTMENT
CORPUS CHRISTI, TEXAS
H. Thorne
SCALE 1" = 2000'
DATE 11-1-65

011 0069 2

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Well Record

File No. .....

Operator HUMBLE OIL & REFINING COMPANY Address WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

County BEE Survey M. DE LOS SANTOS (A-64) Block No. — Sec. No. —

Lease Name LAURA T. BARRON 'B' Well No. 21 Elevation 125' DF (Derrick Floor Level)

Name of Field in which well is located LAURA THOMSON (5600' No. 3 Norias) Hill

Form 1 (Notice of Intention to Drill) Was Filed in Name of HUMBLE OIL & REFINING COMPANY

Is this a NEW WELL? YES DEEPENING? ..... or a WORK-OVER?

If this is a NEW WELL, show when drilling commenced and when drilling was completed.

If this is a PLUG-BACK or DEEPENING operation to a different reservoir, show when work-over commenced and when completed.

(Work-Over) (Drilling) Commenced 3-31, 1966 (Drilling) Completed [illegible] 1966

Correspondence regarding this well should be sent to: Name MR. W. J. BARRETT Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

Has an allowable been assigned to this well? NO

SIZE	PUT IN WELL Ft.	PUT IN WELL In.	PULLED OUT Ft.	PULLED OUT In.	LEFT IN WELL Ft.	LEFT IN WELL In.	PACKERS AND SHOES
7 5/8"	530.02		NONE		530.02		GUIDE SHOE & FLOAT COLLAR
2 7/8"	5620.65		NONE		5620.65		GUIDE SHOE & FLOAT COLLAR
1 1/2"	4204.17		NONE		4204.17		CAMCO PACKER.

Initial Production of Gas—Volume ..... MCF 24 hrs. Pressure ..... lbs. per square inch

Initial Production of Oil: Barrels SEE FORM 3

Initial Production of Distillate: Barrels .....

Is this an OIL well? YES, a GAS well? ....., or a Dry HOLE? .....

DESCRIPTION OF PROPERTY

NORTH

1624' NE OF N15, 467' SW OF THE NE LINE OF THE LEASE, 5450' SE OF THE NW LINE OF THE LEASE.

WEST

GENERAL REMARKS

DRILLED BY BILLINGS OIL SERVICE RIG NO. 4

EAST

MAY 2 1966

Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

SOUTH

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

1342 — 04056

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Surface Snd. & Gravel	0	2000	
Anahuac	2000	3900	
Frio	3900	T.D.	

Method of shutting off water Cag. & Cement Is water completely shut off? Yes

Amount of water with oil per cent

I, ...

being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

W. J. Young
Representative of Company.

Subscribed and sworn to before me this 26TH day of MAY, 1966.

Notary Public

..... County, Texas.

2-1340 Discovery 011 LUB 0064

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1-58

FIELD NAME: LAURA THOMSON (5600' No. 3 Nor~~th~~) RRC DISTRICT NUMBER: 2
(Shown on the schedule as which this field designated on current Proration Schedule.)

NAME OF OPERATOR: HUMBLE OIL & REFINING COMPANY
(Use Name you will use on your E.B. Report in reporting Production.)

NAME OF LEASE: LAURA T. BRAHAM LEASE NUMBER: ~~000~~ 04056 WELL NO. 21

ADDRESS: CORPUS CHRISTI, TEXAS, 78401 SECTION ____ BLOCK ____
(City and State)

P. O. BOX NO. WILSON TOWER SURVEY Miguel Los Santos (A-64) ELEVATION 125' DF

COUNTY IN WHICH WELL IS LOCATED BEE Unit Designation — Ac. in Unit —

8 ½ Miles NE direction from PAPALOTE, TEXAS nearest postoffice or town.

Date potential test commenced 5-13, 1966 Hour 8:00 A.M.

Date potential test completed 5-14, 1966 Hour 8:00 A.M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name? —

Has the Log of this well been filed with Deputy Supervisor? No Date Log filed With this Report.

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 800

Flowing pressure on tbg 75

Length of test 24 Hrs. 0 Mins.

Size choke None Make choke —

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device?

No

Is this well being jetted? Yes

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? 1204

Oil producing during this test into Tank (Tank or Pit)

Date this well was last shot or acidized — If Shot / If Acidized

Barrels of oil produced from this well since shot or treatment to time this test was started — (Answer only if this Test was occasioned by shooting or treating this Well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test — (Applies to new and reworked Wells only.)

Percent water produced during this test 5% Total depth of this well 5630 Ft.

Is this a test of a new well for which no previous allowable has been assigned? Yes

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? No

What is the 24-hour potential at which it is carried currently on proration schedule? —

If this test is the result of a workover what was the nature of the job? —

Hour well completed 5 PM Date well completed 5-1, 1966

Data Necessary on Pumping Well

Make of Pumping unit —

Length of stroke used —

No. strokes per minute —

Size working barrel —

Length of test — Hrs. — Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size — H.P. Pump Model —

Pump Rating — B.P.D. Total Fluid at — Head

Setting Depth — Tubing Size —

Length of test — Hrs — Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials? —

Name of P.L. Connection Humble Oil Pipe Line Co.

If Acidized No. Gallons used —

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing results in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION PROVED BY GAUGE OR SALES (100% Tank Tables)
FLOCO METAL		1	Final Reading				29519			
			Initial Reading				29468			
							Production		51 bbls. Less 5% BS&W =	48.45 Bbls.

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24—hours) 48.45 (100% Tank Tbl.)

GAS/OIL RATIO OF THIS WELL IS 510 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 36.3

(OVER)

13442 — 04056

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of HUMBLE OIL & REFINING COMPANY

Date "Drilling, Plug Back or Deepening Permit" was issued 3-18-66

Is Location "REGULAR," or was "SPECIAL PERMIT" required? REGULAR

If special permit was secured what is permit number? —

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 1

Location of well, relative to lease boundaries of lease on which this well is located: *BELOW feet from ____ line and ____ feet from ____ line of the ____ lease

Size of surface casing 7 5/8" Number feet of surface casing set 530.02

Size of oil string 2 7/8" Number of feet of oil string run 5620.65

Type of tubing head McEvoy Type of Bradenhead McEvoy

Top of pay ____ Ft. Total Depth ____ Ft. Size tubing run 1½"

Perforated from 5508 to 5514 No. Shots 12 No. ft. tubing run 4204.17

Kind of fuel used to drill this well Butane Amt. of fuel used —

Where fuel was secured Contractor

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

[signature] X
Representative of Company making test

X for NOT AVAILABLE
Representative of Offset Operator Offset Operator

X for NOT AVAILABLE
Pipe Line Gauger Company

Representative of the Railroad Commission ____

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

[signature] W. T. YOUNG for Humble Oil & Refining Co.
Representative of Company making test Company making test

SWORN TO AND SUBSCRIBED before me this the 26TH day of MAY, 19 66

(Notary Seal)

Notary Public in and for ____ County, Texas

REMARKS: * 1624' NE of *15, 467' SW of NE Line of Lease - 5450' SE of NW Line of Lease.

011 0065

HUMBLE OIL & REFINING COMPANY

CORPUS CHRISTI, TEXAS 78401

SOUTH TEXAS DIVISION — May 27, 1966 — WILSON TOWER

REQUEST FOR EXCEPTION TO STATEWIDE RULE 13-C

RAILROAD COMMISSION DISTRICT 2

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION
ERNEST O. THOMPSON STATE BLDG.
AUSTIN, TEXAS

An exception to Statewide Rule 13-C is respectfully requested for the following:

LEASE NAME Laura T. Barrow "B" WELL NO. 21

FIELD Laura Thomson (5600' No. 3 North) COUNTY Bee

FRESH WATER PROTECTION ADVISED

Texas Water Commission Letter 3-18-66
Exception to Rule 13(A)(2) granted 4-1-66 Depth 1600'
Field Rules

SURFACE CASING

Size 7-5/8" Depth Set 539' Cement 140 Sacks 8 % Gel

INTERMEDIATE CASING

Size Depth Set Cement Sacks % Gel

PRODUCTION CASING

Size 2-7/8" No. of Strings 1 Set 5630'

Cement 1150 Sacks 8 % Gel

PRODUCTION CASING CEMENTED FROM BOTTOM TO Surface

TOP OF HIGHEST POSSIBLE PRODUCTIVE SAND IN WELL 5508'

RECEIVED
R. C. OF TEXAS
JUN 2 - 1966
O. O.
AUSTIN, TEXAS

HUMBLE OIL & REFINING COMPANY
Wilson Tower, Corpus Christi, Texas

By W. J. Barrett

GC:pc

RAILROAD COMMISSION OF TEXAS

Approved by A. H. Barbick Date 6-2-66

1342 — 04056

011 00066

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form I-1
11-2-62

INCLINATION REPORT

ONE COPY MUST BE FILED WITH EACH COMPLETION REPORT

Field Name Laura Thomson (5600' #3 North) County Bee RRC Dist. No. 2

Operator Humble Oil & Refining Company Address Wilson Tower City Corpus Christi, Texas, 78401

Lease Name & No. Laura T, Barrow "B" Well No. 21 Survey M. de Los Santos

RECORD OF INCLINATION

Depth (feet)	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
500	1	8.75	8.75
1000	1	8.75	17.50
1500	1-1/4	10.90	28.40
2000	1	8.75	37.15
2500	1	8.75	45.90
3000	1	8.75	54.65
3500	1	8.75	63.40
4000	1	8.75	72.15
4500	1	8.75	80.90
5000	1	8.75	89.65
5500	1/2	4.35	94.00
5630	1	2.28	96.28

Total Displacement 96.28

Was survey run in Tubing ____ Casing ____ Open Hole X
Distance to nearest lease line 467 feet
Distance to lease lines as prescribed by field rules 467 feet

1342 — 04056

Certification of personal knowledge Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.

Signature

Company

Operator Affidavit:

(Note: Party making affidavit must strike out inapplicable phrases, and must file explanatory statement when applicable.)

Before me, the undersigned authority, on this day, personally appeared D. O. Harvey known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath state[redacted] (that he is acting at the direction and on behalf of the operator of the well identified in this instrument), and that such well was not intentionally deviated from the vertical whatsoever[redacted]

District Superintendent
Signature and Title of Affiant

Sworn and Subscribed to before me, this the 26th day of May, 19 66.

Notary Public in and for ____ County, Texas.

RRC Use Only:

Approved By: Diana Sanders
Title: Clerk III
Date: 5-31-66

0 1 1 8 0 0 6 7

CEMENTING AFFIDAVIT

I, C.O. Moody, being of lawful age and having full knowledge of the facts herein below set out do state:

That I am employed by Byron Jackson Inc. and that on 4/1/, 19 66 did cement 540 ft. of 7 5/8 O.D. casing for the Humble Oil & Ref. Co.

Lease & Well No.: L.TL. Barrow #B-21 In the Thompson Field, with 440sx. portland cement 8% gel cement, and that an estimated 10 sacks of excess cement was circulated out of the well.

Signed C. O. Moody

STATE OF TEXAS

COUNTY OF

Before me the undersigned authority on this day personally appeared , known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has known facts therein recited.

Subscribed and sworn to before me on this the day of , 19

Notary Public in and for County, Texas

RECEIVED

R R 1246-B
Form 1

1342 — 04056

01189068

CEMENTING AFFIDAVIT

I, C.O. MOODY, being of lawful age and having full knowledge of the facts herein below set out do state:

That I am employed by BYRON JACKSON INC. and that on

1-8-66, 19 66, did cement 5629 ft. of 27/8 O.D.

casing for the HUMBLE OIL & REFINING COMPANY,

Lease & Well No.: BARTON #### B-21 in the THOMPSON Field,

with 2150 SACKS OF CEMENT WITH 8 % GEL 325 LBS R-5 cement,

and that an estimated 20 BBL sacks of excess cement was circulated out of the well.

Signed C O Moody

STATE OF TEXAS

COUNTY OF

Before me the undersigned authority on this day personally appeared

, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has known facts therein recited.

Subscribed and sworn to before me on this the day of , 19

Notary Public in and for
County, Texas

RECEIVED
MAY 31 1966
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

R. R. Com. B
Form 1

1342 — 04056

MAP ID #60

API# 42-025-02452
OIL WELL
PLUGGED

02452

0 0 0 0 7 3 0 0 9 2 4

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (if available)

1. RRC District: 2

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 02907

2. FIELD NAME (as per RRC Records): LAURA THOMSON (5600 #4 SD)

3. Lease Name: LAURA T BARROW "B"

5. Well Number: 15

6. OPERATOR: EXXON CORPORATION

6a. Original Form W-1 Filed in Name of: JUL 12 1979

10. County: BEE

7. ADDRESS: TOWER
CORPUS CHRISTI, TX 78476

6b. Any Subsequent W-1's Filed in Name of

11. Date Drilling Permit Issued: 9-3-63

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 5450 Feet From NW Line and 2200 Feet From NE Line of the LAURA T BARROW "B" Lease

12. Permit Number: —

9a. SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS (A-64

9b. Distance and Direction From Nearest Town in this County: 8 MILES NE OF PAPALOTE

13. Date Drilling Commenced: 9-5-63

16. Type Well (Oil, Gas, Dry): OIL

Total Depth: 850

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil-O Gas-G	WELL #

14. Date Drilling Completed: 9-16-63

18. If Gas, Amt. of Cond. on Hand at time of Plugging

15. Date Well Plugged: 6-1-79

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	6-1-79							
20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5553'							
*22. Sacks of Cement Used (each plug)	160							
*23. Slurry Volume Pumped (cu. ft.)	188.8							
*24. Calculated Top of Plug (ft.)	03'							
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal. 14.5# per gallon								
*27. Type Cement Class "H"								

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
7 7/8		502.38	499.38	
2 7/8		5621.63	5618.63	
1 1/4		5511.23	—	

29. Was any Non-Drillable Material (Other than Casing) Left in This Well ☐ Yes ☐ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Lorraine B. Stevenson
Signature of Cementer or Authorized Representative

Spartan Well Service, Inc.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

G F Presson
REPRESENTATIVE OF COMPANY

G. F. PRESSON
PRORATION SPECIALIST
TITLE

JUN 21 1979
DATE

Phone 512-884-4571
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

Plug approved by Mr. Arnold Crisp, R.R.C., San Antonio, Texas, District 2

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission	[X] Yes [ ] No	32. How was Mud Applied? PUMPED	33. Mud Weight 9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No
5650			36. If NO, Explain
Depth of Deepest Fresh Water 1600			

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: SPARTAN WELL SERVICE, P.O. BOX 1496, CORPUS CHRISTI, TX 78403

Date RRC District Office notified of plugging: 5-11-79

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

CARRL OIL CO., C/O R.C. HAGENS, 1850 BK & TR TOWER, CORPUS CHRISTI, TX 78477

BLAIR-VREELAND, 900 BK & TR TOWER, CORPUS CHRISTI, TX 78477

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Casing Recovered: None

Tubing Recovered: 171 joints of 1½" (Footage unknown - Talley given to Mr. E. P. Salle)

02452

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

FIELD NAME: LAURA THOMSON (5600' No. 4 SAND) RRC DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: HUMBLE OIL & REFINING COMPANY
(Use Names you will use on your E.R. Report in reporting Production.)

NAME OF LEASE: LAURA T. BARROW "B" LEASE NUMBER: 02703 WELL NO. 15

ADDRESS: CORPUS CHRISTI, TEXAS 78401 SECTION — BLOCK —
(City and State)

P. O. BOX NO. WILSON TOWER M. DE LOS SANTOS (A-64) ELEVATION 123' DF
SURVEY

COUNTY IN WHICH WELL IS LOCATED BEE Unit Designation — Ac. in Unit —

8 Miles NE direction from PAPALOTE, TEXAS nearest postoffice or town.

Date potential test commenced 10-7 , 19 64 Hour 9:00 A. M.

Date potential test completed 10-10 , 19 64 Hour 9:00 A. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? YES Date Log filed 10-8-63

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 50-175

Flowing pressure on tbg —

Length of test 24 Hrs. 0 Mins.

Size choke 1/9 Make choke TC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? YES

Is this well being jetted? No

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? —

Oil producing during this test into TANK (Tank or Pit)

Date this well was last shot or acidized — If Shot Qts. used — If Acidized No. Gallons used —

Barrels of oil produced from this well since shot or treatment to time this test was started (Answer only if this Test was occasioned by shooting or treating this Well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test (Applies to new and reworked wells only.)

Percent water produced during this test TRACE Total depth of this well 5650 Ft.

Is this a test of a new well for which no previous allowable has been assigned? No

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? No

What is the 24-hour potential at which it is carried currently on proration schedule? 4 BBLS.

If this test is the result of a workover what was the nature of the job? SEE "REMARKS"

Hour ~~work~~ completed 10:00 A M. Date ~~work~~ completed 10-8 , 19 64

Data Necessary on Pumping Well

Make of Pumping unit —

Length of stroke used —

No. strokes per minute —

Size working barrel —

Length of test — Hrs. — Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size — H.P. Pump Model —

Pump Rating — B.P.D. Total Fluid at — Head

Setting Depth — Tubing Size —

Length of test — Hrs. — Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials? —

Name of P.L. Connection THE PERMIAN CORP. (TRUCKS)

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
27131	1000	6.484	1	10	2	3½		1.55	29.00		29.00

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24 hours) 29.00 (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS 793 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil ~~produced during~~ this test: (Corrected to A.P.I. 60 degrees) 36.4

OCT 29 1964

(OVER)

W.O. #15 @ 10:00 A.M. 10/9

Log — Shot

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of HUMBLE OIL + REFINING COMPANY

Date "Drilling, Plug Back or Deepening Permit" was issued SEPTEMBER 3, 1963

Is Location "REGULAR," or was "SPECIAL PERMIT" required? REGULAR

If special permit was secured what is permit number? —

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken

Location of well, relative to lease boundaries of lease on which this well is located: *BELOW feet from

line and feet from line of the lease

Size of surface casing 7 5/8" Number feet of surface casing set 502.38

Size of oil string 2 7/8" Number of feet of oil string run 5621.63

Type of tubing head SCHAEFFER Type of Bradenhead SCHAEFFER

Top of pay 5553 Ft. Total Depth 5650 Ft. Size tubing run —

Perforated from 5557 5563 to 5561 5565 No. Shots 13 No. ft. tubing run —

Kind of fuel used to drill this well NATURAL GAS Amt. of fuel used —

Where fuel was secured LEASE

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

[signature]
Representative of Company making test

Representative of Offset Operator for NONE (Offset Operator)

[signature]
Pipe Line Gauger for THE PERMIAN CORPORATION (Pipe Line Company)

Representative of the Railroad Commission

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

[signature] H.C. SATTERWHITE for HUMBLE OIL + REFINING COMPANY
Representative of Company making test (Company making test)

SWORN TO AND SUBSCRIBED before me this the 16TH day of OCTOBER 1964

J. L. GALLOWAY [signature]
(Notary Seal)

Notary Public in and for REFUGIO County, Texas

REMARKS: *LOCATION: 1320' N OF No. 13 AND APPROXIMATELY 5450' SE OF THE NW LINE OF THE LEASE; ALSO BEING 2200' SW OF THE NE LINE OF THE LEASE.

WORKOVER: WELL FRACTURED WITH 3822 GALLONS LEASE CRUDE W/ 3962 LBS 20-40 MESH SAND. MAXIMUM PRESSURE 4000 P.S.I. AVERAGE INJECTION RATE 9 3/4 BBLS. PER MINUTE.

011 012

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

FIELD NAME: LAURA THOMSON (5600' No. 4) RRC DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: HUMBLE OIL & REFINING COMPANY

NAME OF LEASE: LAURA T. BARRON B (Use Name you will use on your P. B. Report in reporting Production.) LEASE NUMBER: 02907 WELL NO. 25

ADDRESS: CORPUS CHRISTI, TEXAS, 78401 (City and State) SECTION — BLOCK —

P. O. BOX NO. WILSON TOWER SURVEY M. DE LOS SANTOS (A-64) ELEVATION 123' DF

COUNTY IN WHICH WELL IS LOCATED BEE Unit Designation — Ac. in Unit —

9 Miles NE direction from: PAPALOTE, TEXAS nearest postoffice or town.

Date potential test commenced 1-2, 19 64 Hour 12:00 NOON M.

Date potential test completed 1-3, 19 64 Hour 12:00 NOON M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? YES Date Log filed 10-8-63

DATA ON POTENTIAL TEST

Date Necessary on Flowing Well

Flowing pressure on csg 100-120

Flowing pressure on tbg —

Length of test 24 Hrs. 0 Mins.

Size choke 3/16 Make choke TC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? YES

Is this well being jetted? NO

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered?

Oil producing during this test into TANK (Tank or Pit)

Date this well was last shot or acidized

Date Necessary on Pumping Well

Make of Pumping Unit

Length of stroke

No. strokes per minute

Size working barrel

Length of test JAN 1964 Hrs. Mins.

Date Necessary for Bottom-Hole Centrifugal, Pumpless Wells

Motor Size

Pump Rating B.P.D. Total Fluid at Head

Setting Depth

Length of test Hrs. Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

RECEIVED
JAN 1964
RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

Name of P.L. Connection THE PERMIAN CORP. (TRUCKS)

If Shot / If Acidized

No. Quarts used / No. Gallons used

Barrels of oil produced from this well since shot or treatment to time this test was started (Answer only if this Test was commenced by shooting or treating this well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test (Applies to new and reworked Wells only.)

— Percent water produced during this test TRACE Total depth of this well 5650 Ft.

Is this a test of a new well for which no previous allowable has been assigned? No

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? No

What is the 24-hour potential at which it is carried currently on proration schedule? 12 BBLS.

If this test is the result of a workover what was the nature of the job? SEE "REMARKS"

Hour well completed 2:00 P.M. Date well completed 12-25, 19 63.

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
29635	250	19.99	5	10	8	2	2	4	46.65		46.65
										46.65	

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24 hours) — (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS 1128 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 36.4

(OVER)

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of HUMBLE OIL & REFINING COMPANY

Date "Drilling, Plug Back or Deepening Permit" was issued SEPTEMBER 3, 1963

Is Location "REGULAR," or was "SPECIAL PERMIT" required? REGULAR

If special permit was secured what is permit number? —

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 11

Location of well, relative to lease boundaries of lease on which this well is located: *BELOW feet from —

line and — feet from — line of the — lease

Size of surface casing 7 5/8" Number feet of surface casing set 502.39

Size of oil string 2 7/8" Number of feet of oil string run 5621.63

Type of tubing head SCHAFFER Type of Brauenhead SCHAFFER

Top of pay 5553 Ft. Total Depth 5650 Ft. Size tubing run —

Perforated from 5553 to 5561 No. Shots 13 No. ft. tubing run —

Kind of fuel used to drill this well NATURAL GAS Amt. of fuel used —

Where fuel was secured LEASE

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

T A Dickens
Representative of Company making test

— for NONE
Representative of Offset Operator

James Pickett for THE PERMIAN CORPORATION
Pipe Line Gauger Pipe Line Purchaser

Representative of the Railroad Commission —

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

T.W. Bynum, Jr. T.W. Bynum, Jr. for HUMBLE OIL & REFINING COMPANY
Representative of Company making test Name of Purchaser

SWORN TO AND SUBSCRIBED before me this the 16th day of JANUARY, 64

J. L. GALLOWAY
(Notary Seal)

Notary Public in and for REFUGIO County, Texas

REMARKS: *LOCATION; 1320' N OF NO. 13 AND APPROXIMATELY 5450' SE OF THE NW LINE OF THE LEASE; ALSO BEING 2200' SW OF THE NE LINE OF THE LEASE.

WORKOVER. WELL FRACTURED WITH 8000 GAL. FRAC FLUID AND 13,200# SAND (20-40 MESH). MAXIMUM PRESSURE 5500#. AVERAGE INJECTION RATE 35 BBLS. PER MINUTE.

WW 1 0113

This Form must be filed in District Office not later than ten days after date of completion of test or penalty authorized. Do not take test for a period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED R. R. C. OF TEXAS APR 27 1965

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATE
(See Instructions on Reverse Side)

FIELD NAME: LAURA THOMSON (5600' No. 4 SAND) DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule)

NAME OF OPERATOR: HUMBLE OIL & REFINING COMPANY
(Use Names you will use on your E.R. Report in reporting Production.)

NAME OF LEASE: LAURA T. BARROW "B" LEASE NUMBER: 02907 WELL NO. 15

ADDRESS: CORPUS CHRISTI, TEXAS 78401 SECTION — BLOCK —
(City and State)

P. O. BOX NO. WILSON TOWER SURVEY M. DE LOS SANTOS (A-64) ELEVATION 123' DF

COUNTY IN WHICH WELL IS LOCATED BEE Unit Designation — Ac. in Unit —

8 Miles NE direction from PAPALOTE, TEXAS nearest postoffice or town.

Date potential test commenced 4-18 . 19 65 Hour 8:30 A. M.

Date potential test completed 4-19 . 19 65 Hour 8:30 A. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? YES Date Log filed 10-9-63

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 150 - 250

Flowing pressure on tbg —

Length of test 24 Hrs. 0 Mins.

Size choke 1/2 Make choke FC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? YES

Is this well being jetted? No

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? —

Oil producing during this test into TANK (Tank or Pit)

Date this well was last shot or acidized

If Shot: No. Quarts used

If Acidized: No. Gallons used

Data Necessary on Pumping Well

Make of Pumping unit:

Length of stroke used

No. strokes per minute

Size working barrel

Length of test Hrs. Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size H.P. Pump Model

Pump Rating B.P.D. Total Fluid at Head

Setting Depth Tubing Size

Length of test Hrs. Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Name of P.L. Connection THE PERMIAN CORP. (TRUCKS)

Barrels of oil produced from this well since shot or treatment to time this test was started
(Answer only if this Test was occasioned by shooting or treating this well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test
(Applies to new and reworked wells only.)

Percent water produced during this test Total depth of this well 5650 Ft.

Is this a test of a new well for which no previous allowable has been assigned? No

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? YES

What is the 24-hour potential at which it is carried currently on proration schedule? 39 BBLS.

If this test is the result of a workover what was the nature of the job? —

Hour well completed 10:00 A. M. Date well completed 10-8 . 19 64

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
FLECO METER		FINAL READING			153	42.8					
		INITIAL READING			152	91.3					
		PRODUCTION					51.5				
		LESS B S & W					.5		51		51

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24-hours) 51 (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS 745 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 36.4

(OVER)

4-17 POTENTIAL TEST 4-18 4-19

L 0960 — 8480

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of HUMBLE OIL & REFINING COMPANY

Date "Drilling, Plug Back or Deepening Permit" was issued SEPTEMBER 3, 1963

Is Location "REGULAR," or was "SPECIAL PERMIT" required? REGULAR

If special permit was secured what is permit number? —

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 12

Location of well, relative to lease boundaries of lease on which this well is located: *BELOW feet from —

line and — feet from — line of the — lease

Size of surface casing 7 5/8" Number feet of surface casing set 502.38

Size of oil string 2 7/8" Number of feet of oil string run 5621.63

Type of tubing head SCHAEFFER Type of Bradenhead SCHAEFFER

Top of pay 5553 / 5557 Ft Total Depth 5650 Ft. Size tubing run —

Perforated from 5553 / 5557 to 5565 No. Shots 13 No. ft. tubing run —

Kind of fuel used to drill this well NATURAL GAS Amt. of fuel used —

Where fuel was secured LEASE

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This tenday provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

H. C. Satterwhite
Representative of Company making test

— for NONE
Representative of Offset Operator — Offset Operator

J. W. Bartlett for THE PERMIAN CORPORATION
Pipe Line Gauger — Pipe Line Company

Representative of the Railroad Commission —

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

H. C. Satterwhite H. C. SATTERWHITE for HUMBLE OIL & REFINING COMPANY
Representative of Company making test — Company making test

SWORN TO AND SUBSCRIBED before me this the 7th day of APRIL, 19 65

J. L. GALLOWAY
(Notary Seal)

Notary Public in and for REFUGIO County, Texas

REMARKS: *LOCATION: 1320' N of No. 13 AND APPROXIMATELY 5450' SE OF THE NW LINE OF THE LEASE, ALSO BEING 2200' SW OF THE NE LINE OF THE LEASE.

01 Jun 2114

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

FIELD NAME: LAURA THOMSON (5600' No. 4 SAND) RRC DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: HUMBLE OIL & REFINING COMPANY
(Use Names you will use on your E.R. Report in 1959 Production.)

NAME OF LEASE: LAURA T. BARRON B LEASE NUMBER: 04907 WELL NO. 15

ADDRESS: CORPUS CHRISTI, TEXAS 78401 SECTION — BLOCK —
(City and State)

P. O. BOX NO. WILSON TOWER SURVEY M. DE LOS SANTOS (A-64) ELEVATION 123' DF

COUNTY IN WHICH WELL IS LOCATED BEE Unit Designation — Ac. in Unit —

8 Miles NE direction from PAPALOTE, TEXAS nearest postoffice or town.

Date potential test commenced 11-4, 19 64 Hour 9:30 A. M.

Date potential test completed 11-5, 19 64 Hour 9:30 A. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? YES Date Log filed 10-8-63

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 106-175

Flowing pressure on tbg —

Length of test 24 Hrs. 0 Mins.

Size choke 1/4 Make choke TC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? YES

Is this well being jetted? No

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? —

Oil producing during this test into TANK (Tank or Pit)

Date this well was last shot or acidized

Barrels of oil produced from this well since shot or treatment to time this test was started (Answer only if this Test was occasioned by shooting or treating this well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test (Applies to new and reworked wells only.)

Percent water produced during this test 2.2% Total depth of this well 5650 Ft.

Is this a test of a new well for which no previous allowable has been assigned? No

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? YES

What is the 24-hour potential at which it is carried currently on proration schedule? 29 BBLS.

If this test is the result of a workover what was the nature of the job?

Hour well completed 10:00 A. M. Date well completed 10-8, 19 64

Data Necessary on Pumping Well

Make of Pumping unit —

Length of stroke used —

No. strokes per minute —

Size working barrel —

Length of tent — Hrs. — Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size — H.P. Pump Model —

Pump Rating — B.P.D. Total Fluid at — Head

Setting Depth — Tubing Size —

Length of test — Hrs. — Mins.

Has any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Name of P.L. Connection THE PERMIAN CORP. (TRUCKS)

If Shot: No. Quarts used — If Acidized: No. Gallons used —

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 96% Tank Tables	PRODUCTION 100% Tank Tables
28635	20		7	5/8	9	3/4	1	11 1/4	39.45		39.45

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24 hours) 39.45 (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS 744 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 36.4

RECEIVED
R. R. C. OF TEXAS
NOV 13 1964
O. & G.
AUSTIN, TEXAS

(OVER)

DR

ET# 15 @ 39# gth

4 10

11/7

Lo/sto — 8480

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of HUMBLE OIL & REFINING COMPANY

Date "Drilling, Plug Back or Deepening Permit" was issued SEPTEMBER 3, 1963

Is Location "REGULAR," or was "SPECIAL PERMIT" required? REGULAR

If special permit was secured what is permit number? —

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 10

Location of well, relative to lease boundaries of lease on which this well is located: *BELOW feet from the — line and — feet from the — line of the — lease

Size of surface casing 7 5/8" Number feet of surface casing set 502.38

Size of oil string 2 7/8" Number feet of oil string run 5621.63

Type of tubing head SCHAEFFER Type of Braidenhead SCHAEFFER

Top of pay 5553 Ft. Total Depth 5650 Ft. Size tubing run —

Perforated from 5537 5561 to 5565 5565 No. Shots 13 No. ft. tubing run —

Kind of fuel used to drill this well NATURAL GAS Amt. of fuel used —

Where fuel was secured LEASE

INSTRUCTIONS. All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed, and in no event shall fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to the date of acceptance of the potential test in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

T. A. Jeffers
Representative of Company making test

Representative of Offset Operator for NONE

Pipe Line Gauger for THE PERMIAN CORPORATION

Representative of the Railroad Commission —

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for such potential test were complied with and carried out in full, and that all data and facts set forth in both sides of this form are true and correct.

J. B. Best, Jr. for HUMBLE OIL & REFINING COMPANY

SWORN TO AND SUBSCRIBED before me this the 4th day of NOVEMBER, 64

J. L. GALLOWAY

Notary Public

REMARKS: *LOCATION: 1320' NOF No. 13 AND APPROXIMATELY 5450' SE OF THE NW LINE OF THE LEASE; ALSO BEING 2200' SW OF THE NE LINE OF THE LEASE.

MAP ID #61

API# 42-025-02733
OIL WELL
PLUGGED

(61)

Plugging Record 9/

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION 08824 1761

Form W-3
Rev. 9-1-67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

1 RRC Lease or Id. Number: 04056

2 Field (as per RRC Records): LAURA THOMSON, NORTH (5600 No. 3)

3 LEASE NAME: LAURA T. BARROW 'B'

3 Well No.: 22

4 OPERATOR: HUMBLE OIL & REFINING COMPANY

10 County: BEE

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 8-30-66

8 SURFACE LOCATION: 2700 FEET FROM NORTH LINE, AND 4850 FEET FROM WEST LINE

12 Date Drilling Commenced: 9-15-66

9 SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS (A-64)

13 Date Drilling Completed: 9-23-66

15 Type of Well (Oil, Gas, Dry): OIL

16 Type of Completion (Single, Dual, Etc.): SINGLE

17 Total Depth

14 Date Well Plugged: 7-20-71

18 FORM W-1 Retention in Drilling Files in Name of: HUMBLE OIL & REFINING COMPANY

19 Manner of Placement

PLUG #1	8	SACKS	TOP	5280	BOTTOM	5506	TYPE	CLASS A
PLUG #2	2	SACKS	TOP	5	BOTTOM	15	TYPE	CLASS A
PLUG #3	7	SACKS	TOP	5	BOTTOM	30	TYPE	CLASS A
PLUG #4		SACKS	TOP		BOTTOM		TYPE	

20 Was Well filled with Mud Laden Fluid, according to the regulations of the Railroad Commission: YES X NO

21 How was Mud applied? PUMP

22 Mud Weight: 10.0 LBS. GAL

23 Depth of Deepest Fresh Water: 1600 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO

25 If NO, Explain

26 Name and Address of Party Plugging Well

27 Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	505.65		505.65	
2 7/8"	5566.19		5566.19	

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

RECEIVED
R.R.C. OF TEXAS
JAN 10 1972
O.G.
SAN ANTONIO, TEXAS

29 Was Notice given before Plugging to each of the above and RRC District Office? YES X NO

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle — PRORATION SPECIALIST — 1-6-72

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature REPRESENTATIVE OF RAILROAD COMMISSION

14(b)2 Canceled DR-31

*All Dry Holes, Fill in Reverse Side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat)
LAURA THOMSON, NORTH (5600 No. 3)

*2. RRC District
2

*3. Operator
HUMBLE OIL & REFINING COMPANY

*4. County
BEE

*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s)
LAURA T. BARRON B 04056

*6. Well Number
22

*7. Location (Section, Block, and Survey)
M. DE LOS SANTOS

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

RECEIVED
R.R.C. OF TEXAS
JAN 10 1972
O.G.
SAN ANTONIO, TEXAS

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	7-16-71	7-20-71	7-20-71			
*20. Size of Hole or Pipe in which Plug Placed (inches)	27/8"Csg	27/8"csg	27/8X85/8"annulus			
*21. Depth to Bottom of ~~XXXXXXXXXX~~ Plug	5506	15	30'			
22. Sacks of Cement Used (each plug)	8	2	7	No casing pulled		
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)	5280	5	5			
*25. Measured Top of Plug (if tagged) (ft.)						

2-04456

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

— OVER —

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

26. Remarks:	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Signature of Cementer or Authorized Representative

Howard E. Fish, President

Name of Person and Title (type or print)

Fish Oil Well Servicing Co.

Cementing Company

P. O. Box 1057

Street Address or P.O. Box

Beeville, Texas 78102

City, State Zip Code

Telephone 512 358-2505
Area Code

11-27-71

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S. that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

HUMBLE OIL & REFINING CO.

*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

*City, State Zip Code

*Telephone 512 884-4571
Area Code

1-6-72

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3,
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 1,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

0 1 1 9

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2
Well Record

File No.

Operator Humble Oil & Refining Company Address Wilson Tower, Corpus Christi, Texas, 78401

County Bee Survey M. De Los Santos (A-64) Block No. - Sec. No. -

Lease Name Laura T. Barrow "B" Well No. 22 Elevation 125' D.F. (Above Sea Level)

Name of Field in which well is located Laura Thomson, North (5600' No. 3)

Form 1 (Notice of Intention to Drill) Was Filed in Name of Humble Oil & Refining Company

Is this a NEW WELL? Yes DEEPENING? or a WORK OVER?

If this is a NEW WELL, show when drilling commenced and when drilling was completed.

If this is a PLUG-BACK or DEEPENING operation to a different reservoir, show when work-over commenced and when completed

~~(Work-Over)~~ (Drilling) Commenced September 15, 19 66 ~~(Work-Over)~~ (Drilling) Completed September 23, 19 66

Correspondence regarding this well should be sent to: Name Mr. W. J. Barrett Address Wilson Tower, Corpus Christi, Texas 78401

Has an allowable been assigned to this well? No

SIZE	PUT IN WELL Ft.	PUT IN WELL In.	PULLED OUT Ft.	PULLED OUT In.	LEFT IN WELL Ft.	LEFT IN WELL In.	PACKERS AND SHOES
8 5/8"	505.65		None		505.65		Guide shoe & float collar
2 7/8"	5566.19		None		5566.19		Set shoe & landing collar

Initial Production of Gas—Volume 81 MCF 24 hrs. Pressure 575 lbs. per square inch

Initial Production of Oil: Barrels 120

Initial Production of Distillate: Barrels

Is this an OIL well? Yes, a GAS well? , or a Dry HOLE?

DESCRIPTION OF PROPERTY
NORTH

850' SW of #15; 850' NW of #13;
4850' SE of NW line of the lease.

WEST

EAST

SOUTH

GENERAL REMARKS

Drilled by Dillingham Drilling Company
Rig #1.

RECEIVED
OCT 7 1966
Railroad Com
OIL & GAS
SAN ANTONIO

1342 — 04056

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Surface sd & gravel	0	2000	
Catahoula	2000	3500	
Frio	3500	5590	
Total Depth		5590	

Method of shutting off water Casing and cement Is water completely shut off? Yes

Amount of water with oil trace per cent

I, [redacted] B. J. Peseck being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Representative of Company.

Subscribed and sworn to before me this 6TH day of October, 1966

Notary Public

County, Texas.

01 0075

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1—1958

FIELD NAME: Laura Thomson, ~~North~~ (5600' No. 35 North) RRC DISTRICT NUMBER: 2
(~~Use Field Name by which this Field Designated on Current Proration Schedule.~~)

NAME OF OPERATOR: Humble Oil & Refining Company
(~~Use Name you will use on your E.B. Report in reporting Production.~~)

NAME OF LEASE: Laura T. Barrow "B" LEASE NUMBER: 04056 WELL NO. 22

ADDRESS: Corpus Christi, Texas 78401 (City and State) SECTION - BLOCK -

P. O. BOX NO. Wilson Tower SURVEY M. De Los Santos (A-64) ELEVATION 125' D.F.

COUNTY IN WHICH WELL IS LOCATED Bee Unit Designation - Ac. in Unit -

8.1 Miles NE direction from Papalote, Texas nearest postoffice or town.

Date potential test commenced September 25, 19 66 Hour 2:00 P. M.

Date potential test completed September 26, 19 66 Hour 2:00 P. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? Yes Date Log filed With this report

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 575

Flowing pressure on tbg -

Length of test 24 Hrs. 0 Mins.

Size choke 9/64 Make choke TC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? Yes

Is this well being jetted? No

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? -

Data Necessary on Pumping Well

Make of Pumping unit

Length of stroke used

No. strokes per minute

Size working barrel

Length of test Hrs. Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size H.P. Pump Model

Pump Rating B.P.D. Total Fluid at Head

Setting Depth Tubing Size

Length of test Hrs. Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Oil producing during this test into Tank (Tank or Pit) Name of P.L. Connection Humble Pipe Line Company

Date this well was last shot or acidized If Shot No. Quarts used If Acidized No. Gallons used

Barrels of oil produced from this well since shot or treatment to time this test was started
(Answer only if this Test was occasioned by shooting or treating this Well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test 141
(Applies to new and reworked wells only.)

Percent water produced during this test trace Total depth of this well 5590 Ft.

Is this a test of a new well for which no previous allowable has been assigned? Yes

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? No

What is the 24-hour potential at which it is carried currently on proration schedule? -

If this test is the result of a workover what was the nature of the job? -

Hour well completed 1:00 P. M. Date well completed September 23 19 66

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
Floco Meter		Final reading			33856	6					
		Initial reading			33736	6					
					120	0			120		120

RECEIVED
Railroad Commission
OIL & GAS
SAN ANTONIO

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24-hours) 120 (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS 675 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 37.7

(OVER)

+ 120N
+ 2 Kilmer

Nu 22 @ 120 N 27 7/28

out eff. O.K. BDM

FLD. #1342 GEA 04056

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of Humble Oil & Refining Company

Date "Drilling, Plug Back or Deepening Permit" was issued August 30, 1956

Is Location "REGULAR," or was "SPECIAL PERMIT" required? Special

If special permit was secured what is permit number? 59,992

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 2

Location of well, relative to lease boundaries of lease on which this well is located: *Below feet from _____ line and _____ feet from _____ line of the _____ lease

Size of surface casing 8-5/8" Number feet of surface casing set 505.65

Size of oil string 2-7/3" Number of feet of oil string run 5566.19

Type of tubing head McEvoy Type of Bradenhead _____ McEvoy

Top of pay 5499 Ft. Total Depth 5590 Ft. Size tubing run -

Perforated from 5499 to 5506 No. Shots 14 No. ft. tubing run -

Kind of fuel used to drill this well Natural gas Amt. of fuel used -

Where fuel was secured Lease gas lift line.

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

C. J. Stine
Representative of Company making test

_____ for None
Representative of Offset Operator — Offset Operator

_____ for Not available
Pipe Line Gauger — Pipe Line Company

Representative of the Railroad Commission Thomas T. Dallas

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

B. J. Pesek for Humble Oil & Refining Company
Representative Company making test — Company making test

SWORN TO AND SUBSCRIBED before me this the 6th day of October, 1956

(Notary Seal)

_____
Notary Public in and for _____ County, Texas

REMARKS: *Location: 850' SW of #15; 850' NW of #13; 4850' SE of NW line of lease.

0 1 1 0 0 7 6

DOWELL **DOWELL** DIVISION OF THE DOW CHEMICAL COMPANY

811 MELROSE BUILDING
HOUSTON 2 TEXAS

CEMENTING AFFIDAVIT

STATE OF TEXAS

COUNTY OF Victoria

BEFORE ME, a Notary Public in and for Victoria County, Texas, on this day personally appeared E. J. Cockrell of DOWELL, Division of The Dow Chemical Company, who, being by me duly sworn, deposes and says:

THAT on September, 1966. DOWELL, Division of The Dow Chemical Company cemented 5576' (length) feet of One String of 2-7/8" (size) casing in 7-7/8"-Hole L. T. Barrow (name of well) WELL NO. # B-22 near Woodsboro, and in Bee County, Texas, with 2620 cubic feet. Cement Was (was ~~xxxxxxxxx~~) circulated to surface.

By statement of the operator Mr. O. R. Hoyle

The above work was done for Humble Oil & Refining Company (Name of Operator)

O.K. [illegible]

Wilson Tower (Address), Corpus Christi (City), Texas 78401 (State)

BY E. J. Cockrell
E. J. Cockrell

Subscribed and sworn to before me this 22nd day of September, 1966.

RECEIVED
OCT 7
[illegible] OIL & GAS
SAN ANTONIO, TEXAS

Ted Haynes
NOTARY PUBLIC IN AND FOR
Victoria County, Texas.

(SEAL)

Fed #1342 LSE #04052

011 0077

DOWELL DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

911 MELROSE BUILDING
HOUSTON 2, TEXAS

CEMENTING AFFIDAVIT

REC'D. DIST. SEP 21 1966

STATE OF TEXAS

COUNTY OF Victoria

BEFORE ME, a Notary Public in and for Victoria County, Texas, on this day personally appeared W. M. Piehl of DOWELL, Division of The Dow Chemical Company, who, being by me duly sworn, deposes and says:

THAT on September 16, 1966, DOWELL, Division of The Dow Chemical Company cemented 518' (length) feet of 8-5/8" (size) casing in 12¼" Hole L. T. Barrow (name of well) WELL NO. # B-22 near Woodsboro, and in Refugio County, Texas, with 445 cubic feet. Cement Was Not (~~was~~ was not) circulated to surface.

By statement of the operator Mike Dillingham

The above work was done for Humble Oil & Refining Company (Name of Operator)

South Texas Division-Wilson Tower, Corpus Christi, Texas 78401
(Address) (City) (State)

BY W. M. Piehl
W. M. Piehl

Subscribed and sworn to before me this 20th day of September, 1966.

RECEIVED
OCT 5 1966
OIL & GAS DIV.
SAN ANTONIO

Ted Haynes
NOTARY PUBLIC IN AND FOR Victoria County, Texas.

(SEAL)

Ted Haynes

011 00078

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form I-1
11-2-62

INCLINATION REPORT

ONE COPY MUST BE FILED WITH EACH COMPLETION REPORT

Field Name Laura Thomson County Bee RRC Dist. No. 2

Operator Humble Oil & Refining Company Address Wilson Tower City Corpus Christi, Texas 78401

Lease Name & No. Laura T. Barrow "B" Well No. 22 Survey M. De Los Santos (A-64)

RECORD OF INCLINATION

Depth (feet)	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
493	1/4	2.17	2.17
1009	1	9.03	11.20
1538	3/4	6.93	18.13
2037	1	8.73	26.86
2751	1-3/4	21.78	48.64
3719	1-3/4	29.52	78.16
4210	1	8.59	86.75
4741	3/4	6.96	93.71
5208	1	8.17	101.88
5549	1-1/4	7.43	109.31

Total Displacement 109.31

Was survey run in Tubing ____ Casing ____ Open Hole X
Distance to nearest lease line 3200 feet
Distance to lease lines as prescribed by field rules 467 feet

Certification of personal knowledge Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.

RECEIVED
OCT
Natural Gas & Oil
OIL & GAS
SAN ANTONIO

Mike Mullinax
Signature

Dillingham Drilling Co
Company

Operator Affidavit:

(Note: Party making affidavit must strike out inapplicable phrases, and must file explanatory statement when applicable.)

Before me, the undersigned authority, on this day, personally appeared [redacted] B. J. Pesak known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath ~~states that he is the operator of the well identified in this instrument~~ (that he is acting at the direction and on behalf of the operator of the well identified in this instrument), and that such well was not intentionally deviated from the vertical whatsoever ~~and that such well was deviated at random for the reason described in the attached statement~~.

B. J. Pesak Unit Head
Signature and Title of Affiant

Sworn and Subscribed to before me, this the 6TH day of October 19 66.

Notary Public In and for ____ County, Texas.

RRC Use Only:

Approved By: Diana Sanders
Title: Clerical Supervisor
Date: 9-1-66

FEB. 71342 EXT. N 00036

011 00894

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 7/5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

7 RRC District: 2
8 RRC Lease Number: 04056
9 Well Number: 22
10 County: Bee

1 FIELD NAME (as per RRC Records or Wildcat): Laura Thomson North (5600 #3)
2 LEASE NAME: Laura T. Barrow "B"
3 OPERATOR: Humble Oil & Refining Company
4 ADDRESS: Wilson Tower, Corpus Christi, Texas, 78401
5 If Operator has changed within last 60 Days -- Give former Operator:
6 LOCATION (Section, Block, and Survey): M. de Los Santos (A-64)
11 Purpose of Test: Initial Potential [ ] Retest [X] Recles [ ]
12 If Workover -- Give former Field (with Reservoir):
13 Type of Electric or other Log run: Neutron
14 Completion Date: 9-23-66

Section I — POTENTIAL TEST DATA

15 Date of Test	16 No. of Hours Tested	17 Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump)			18 Choke Size
7-2-67	24	Gas Lift			8/16
19 Production for Test Period	**Oil - BBLS**	**Gas - MCF**	**Water - BBLS**	**Gas - Oil Ratio**	**Flowing Tubing Pressure**
	17	94	104	5529	230 PSI
20 Calculated 24 Hour Rate	**Oil - BBLS**	**Gas - MCF**	**Water - BBLS**	**Oil Gravity - API - 60°**	**Casing Pressure**
	17	94	104	37.7	740 PSI

21 Was Swab or Artificial Flowing Device Used During this Test? Yes [X] No [ ]
22 Oil Produced Prior to Test (New & Reworked Wells):
23 Injection Gas-Oil Ratio: 11000

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

M. D. McNair
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified:

Date of Notification:

RECEIVED
JUL 11 1967
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R. H. Romar — Supervisor — 7-10-67
REPRESENTATIVE OF COMPANY — TITLE — DATE

REMARKS

C4051

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

01 - 00081

Form W-2
Rev. 7/1/60

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson, North (5600' No. 3)	2. LEASE NAME: Laura T. Barrow "B"
3. OPERATOR: Humble Oil & Refining Company	7. RRC District: 2
4. ADDRESS: Wilson Tower, Corpus Christi, Texas	8. RRC Lease Number: 04056
5. If Operator has changed within last 60 Days -- Give former Operator: -	9. Well Number: 22
6. LOCATION (Section, Block, and Survey): M. De Los Santos (A-64)	10. County: Bee
12. If Workover --Give former Field (with Reservoir)	11. Purpose of Test: Initial Potential [ ] Retest [X] Reclass [ ]
13. Type of Electric or other Log run	14. Completion Date: 9-23-66

Section I

POTENTIAL TEST DATA

15. Date of Test: 1-26-67	16. No. of Hours Tested: 24	17. Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump): Gas Lift				18. Choke Size: None
19. Production for Test Period	Oil - BBLS: 61	Gas - MCF: 117	Water - BBLS: 85	Gas - Oil Ratio: 1918	Flowing Tubing Pressure: 150 PSI	
20. Calculated 24 Hour Rate	Oil - BBLS: 61	Gas - MCF: 117	Water - BBLS: 85	Oil Gravity - API - 60°: 37.7	Casing Pressure: 700 PSI	
21. Was Swab or Artificial Flowing Device Used During this Test? Yes [X] No [ ]	22. Oil Produced Prior to Test (New & Reworked Wells)				23. Injection Gas-Oil Ratio: 2738	

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

C. J. Stine

Signature: REPRESENTATIVE OF COMPANY MAKING TEST

List of Offset Operators Notified: NONE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

Date of Notification:

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R. H. Bomar — REPRESENTATIVE OF COMPANY

Supervisor — TITLE

January 31, 1967 — DATE

REMARKS: Perforations: 5499-5506 Feet.

1343 — 04056

MAP ID #62

API# 42-025-32822
GAS WELL
PLUGGED

(62)

Plugging Record

RAILROAD COMMISSION OF TEXAS C&E Operating
OIL AND GAS DIVISION Thomdson Barrow C-4

FORM W-3
Rev. 12/92 (99)

API No. (if available)	1. RRC District
42- 025 32822	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 163799

2 FIELD NAME (as per RRC records): Heard Ranch (3900)	3. Lease Name: Thomson-Barrow Corp. C	5. Well Number: 4
6 OPERATOR: C & E Operating, Inc.	6a. Original Form W-1 filed in name of:	10. County: Bee
7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77498	6b. Any subsequent W-1's filed in name of:	11. Date Drilling Permit Issued: 04/09/1997
8 Location of well, relative to nearest lease boundaries of lease on which this well is located: 980 feet from NW line and 4142 feet from SW line of the Thomson-Barrow Corp. lease C		12. Permit Number: 460660
9a. SECTION, BLOCK and SURVEY: Miguel DeLosSantos Grant A-64	9b. Distance and direction from nearest town in this county: 6.2 miles NE from Papalote	13. Date Drilling Commenced: 04/29/1997
16 Type Well (oil, gas, or dry): gas; Total Depth: 5509'	If multiple completion list all field names and oil lease or gas id no.'s; Gas ID or Oil Lease #; Oil - O Gas - G; Well #	14. Date Drilling Completed: 06/05/1997
18 If gas, amt. of cond. on hand at time of plugging		15. Date Well Plugged: 08/17/2012

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	8/17/12							
20. Size of Hole or Pipe in which Plug Placed (inches)	12¼							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2530'							
*22. Sacks of Cement Used (each plug)	80							
*23. Slurry Volume Pumped (cu ft)	84.8							
*24 Calculated Top of Plug (ft.)	Surface							
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. # / Gal	16.4							
*27 Type Cement	H							

RECEIVED RRC OF TEXAS SEP 17 2012 OIL & GAS WELL COMPLIANCE AUSTIN, TX

Received RRC of Texas SEP 10 2012 Oil & Gas Division San Antonio, Texas

28 CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	647	643	12¼
2 7/8	6.5	4462	4458	7 7/8

29 Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4298	TO	4300	FROM	2528	TO	2532
FROM	4205	TO	4208	FROM		TO	
FROM	3928	TO	3930	FROM		TO	
FROM	2829	TO	2620A	FROM		TO	
FROM	2796	TO	2804	FROM		TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Signature of Cementer or Authorized Representative

South Central Cementers
Name of Cementing Company

CERTIFICATE.
I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Boening — REPRESENTATIVE OF COMPANY
Office Manager — TITLE
09/07/2012 — DATE
PHONE 361 — A/C
741-3600 — NUMBER

edias 9/14/12
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? ☒ Yes ☐ No	32. How was mud applied? Circulate	33. Mud Weight 10.0 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R.		35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☒ Yes ☐ No
	TOP	BOTTOM	36. If No, Explain
5509 Depth of Deepest Fresh Water 1100	0	700	

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well: South Central Cementers, P.O. Box 967, Beeville, Texas 78104

Date RRC District Office notified of plugging: 08/16/2012

38. Name(s) and address(es) of surface owners of well site:

Thomson-Barrow Corp.
5847 San Felipe
Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

RECEIVED
R.R.C. OF TEXAS
JUL 03 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Type of test only
483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42- 025-32822

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7. RRC District No.: 02
8. RRC Gas ID No.: 163799
1. FIELD NAME (as per RRC Records or Wildcat): Heard Ranch (3900)
2. LEASE NAME: Thomson-Barrow Corp. R R C [illegible] AS #4
9. Well No.: 4
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
RRC Operator No.: 120079
10. County of well site: Bee
4. ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478
11. Purpose of filing: Initial Potential [X]; Retest [ ]; Reclass [ ]; Well record only (Explain in remarks) [ ]
5. Location (Section, Block, and Survey): Miquel De Los Santos Grant A-64
5b. Distance and direction to nearest town in this county.: 6.2 NE from Papalote
6. If operator has changed within last 60 days, name former operator:
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #:
13. Pipe Line Connection: Natural Gas Pipeline
14. Completion or recompletion date: 6/5/97
15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No
16. Type of Electric or other Log Run.: Ind.

Section I — GAS MEASUREMENT DATA

Date of Test: 6/5/97
Gas Measurement Method (Check One): Orifice Meter [X] ▶ Flange Taps [X] Pipe Taps [ ]; Positive Choke [ ]; Orifice Vent Meter [ ]; Pitot Tube [ ]; Critical-flow Prover [ ]
Gas produced during test: 67 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.067	.750	3587.12	365	64.0	80	.9813	1.0042	1.0271	555
2	2.067	.750	3587.12	365	43.0	80	.9813	1.0042	1.0271	455
3	2.067	.750	3587.12	365	25.5	80	.9813	1.0042	1.0271	350
4	2.067	.750	3587.12	365	13.0	80	.9813	1.0042	1.0271	250

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.595	-- Deg. API	DRY CF/Bbl	G_{mix} = .595	114 ^oF	153 ^oF @ 3929 (Depth)

$D_{eff}^{8/3}$ = 10.802
$\sqrt{T_f}$ = $\sqrt{580}$ = 24.08
$\sqrt{GL}$ = $\sqrt{2337.76}$ = 48.35
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{(1118)(10.802)}{24.08} = 501$
$\frac{\sqrt{GL}}{C} = \frac{48.35}{501} = .0965$

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. ^oF	P_w^2 (Thousands)	R	R^2 (Thousands)		P_w/P_1
Shut-In			1390	75	1932				
1	60	9/64	1240	88	1538	53.6	2.9	1241	.9992
2	60	8/64	1315	87	1729	43.9	1.9	1316	.9992
3	60	7/64	1345	87	1809	33.8	1.1	1345	1.0000
4	60	6/64	1380	87	1904	24.1	.6	1380	1.0000

Return to Records Retention

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		.0764	1.1679	1.0933	1520	2310	
1	.9996	.0755	1.1535	1.0910	1354	1833	477
2	.9996	.0755	1.1568	1.0913	1436	2062	248
3	1.0000	.0756	1.1581	1.0915	1468	2155	155
4	1.0000	.0756	1.1596	1.0916	1506	2268	42

Angle of Slope: θ ..63.5..... n ..5000.....
Absolute Open Flow: ...1230... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

Signature: Well Tester — TARGET WELL SERVICES, INC. — Name of Company — RRC Representative — RECORDS CONFIRMATION

OCT 01 1997

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Bolsinger — President — 6/19/97 — Tel: 281 - 265-6500
Signature: Operator's representative — Title — Date — A/C Number

API 025-32822

VALID PERMIT
PRODUCTION ALLOCATION

JUL 16 1997

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 4/9/97 — PERMIT NO. 460660
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 1000

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 4/29/97 Completed 6/5/97

23. Distance to nearest well, Same Lease & Reservoir

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 980 Feet From NW Line and 4142 Feet from SW Line of the Thomson-Barrow Corp. C Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 113

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: 3928'

28. Total Depth: 5509'

29. P. B. Depth: 3994'

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] Dt. of Letter 4/9/97

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	647'	-	305sx A	12 1/4	surface	548
2 7/8"	6.5	4462'		1000sx H	7 7/8	surface	1587

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
TUBING LESS		

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
From	To
From	To
From	To

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4298- 4300'	Perforate 4SPF
3994'	CIBP + cmt
3928- 3930'	Perforate 4SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	2860		
Vicksburg	5260		

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Heard Ranch (3900)
2. LEASE NAME: Thomson-Barrow Corp. "C"
3. OPERATOR: C & E Operating, Inc.
4. ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478
5. LOCATION (Section, Block, and Survey): Miquel De Los Santos Grant
6. RRC District: 02
7. RRC Lease Number. (Oil completions only):
8. Well Number: 4
9. RRC Identification Number (Gas completions only): 163799
10. County: Bee

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JUL 03 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
500	500	1/4	0.43	2.15	2.15
653	153	1/4	0.43	0.66	2.81
1650	997	1/4	0.43	4.29	7.10
2650	1000	1/4	0.43	4.30	11.40
3633	983	1/4	0.43	4.23	15.63
4630	997	3/4	1.31	13.06	28.69
5509±	779	1/2	0.87	6.78	35.47

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no
18. Accumulative total displacement of well bore at total depth of 5509 feet = 35.47 feet.
*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line 980.00 feet.
21. Minimum distance to lease line as prescribed by field rules 467 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No
(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Robert R. Kullin
Signature of Authorized Representative
Robert R. Kullin - President
Name of Person and Title (type or print)
Corpus Christi Drilling Company
Name of Company
Telephone: 512 (Area Code) 991-8400

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Terry L. Boening
Signature of Authorized Representative
Terry L. Boening
Name of Person and Title (type or print)
C & E Operating, Inc.
Operator
Telephone: 281/ 265-6500 (Area Code)

Railroad Commission Use Only:
Approved By: Title: Date: 7-8-97

* Designates items certified by company that conducted the inclination surveys.

Cementer Fill in shaded areas.
Operator Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7 Drilling Permit No**
Heard Ranch (3900)		42- 025-32822	460660
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Thompson-Barrow Corp.		163799	C-4

CASING CEMENTING DATA.		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		04/30/97					
13 •Drilled hole size		12 1/4	T.N.R.C.C. LETTER DATED 4-8-97				
•Est % wash or hole enlargement		25	Depth 1350 ft.				
14 Size of casing (in OD)		8 5/8	13(A) Exception Dated 4-9-97				
15 Top of liner (ft)			Surface Casing 600 ft.				
16 Setting depth (ft)		647	D.V. @ ft.				
17 Number of centralizers used		6					
18 Hrs waiting on cement before drill out		12					
1st Slurry	19 API cement used No of sacks ▶	195					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt					
2nd Slurry	No of sacks ▶	110					
	Class ▶	A					
	Additives ▶	$CaCl_2$					
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶	408					
	Height (ft) ▶	988					
2nd	Volume (cu ft) ▶	140					
	Height (ft) ▶	339					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft.) ▶	548					
	Height (ft) ▶	1327					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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R R C OF TEXAS
JUL 03 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in)								
25. Depth to bottom of tubing or drill pipe (ft)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Bill Yeschke, Service Supervisor — Name and title of cementer's representative
BJ Services Co. — Cementing Company
Bill Yeschke — Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
512-575-6446 — Tel.: Area Code Number
04/30/97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Terry L. Boening — Signature

13333 Southwest Freeway, #105 — Address
Sugar Land, Tx 77478 — City, State, Zip Code
281/ 265-6500 — Tel., Area Code Number
6 19 97 — Date: mo. day yr

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging) For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules,
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4)

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E OPERATING			BEE
5 Field Name (Wildcat or exactly as shown on RRC records)		6 API No 42-	7 Drilling Permit No
8 Lease Name THOMPSON-BARROW	9 Rule 37 Case No	10 Oil Lease/Gas ID No 163799	11 Well No. #C-4

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date				05/07/97		RECEIVED	
13 •Drilled hole size				7 7/8		R.R.C. OF TEXAS	
•Est % wash or hole enlargement				15		JUL 03 1997	
14 Size of casing (in O D)				2 7/8		OIL & GAS DIVISION	
15 Top of liner (ft)						SAN ANTONIO, TEXAS	
16 Setting depth (ft)				5509			
17 Number of centralizers used				16			
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used No of sacks ▶			350			
	Class ▶			H			
	Additives ▶			Poz,Gel,Salt,R-3			
2nd Slurry	No of sacks ▶			650			
	Class ▶			H			
	Additives ▶			Poz,Gel,FL-25,KCL			
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶			781			
	Height (ft) ▶			2662			
2nd	Volume (cu ft) ▶			806			
	Height (ft) ▶			2745			
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶			1587			
	Height (ft) ▶			5407			
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Russell Tremaine, Service Suprv. — Name and title of cementer's representative
BJ Services Company — Cementing Company
Russell Tremaine — Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
512/575- 6446 — Tel.: Area Code Number
05/07/97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Signature

13333 Southwest Freeway, #105 — Address
Sugar Land, Tx 77478 — City, State, Zip Code
281/ 265-6500 — Tel: Area Code Number
6/ 19/ 97 — Date. mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

* Expedite *

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office

Read Instructions on Back

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150, 9001' or deeper - $200

Purpose of filing (mark appropriate boxes): ☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter ☐ Horizontal ☐ Directional Well ☐ Sidetrack ☒ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32822; Permit No. 460660; Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc. 6-20-97
3. RRC Operator No.: ~~12079~~ 120079
4. RRC District No.: 02
5. County of Well Site: Bee
2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
953535
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. C
7. RRC Lease/ID No.:
8. Well No.: 4
9. Total Depth: 6000'
10. Location
- Section ____ Block ____ Survey Miguel de los Santos Abstract No. A-64
- This well is to be located 6.2 miles in a NE direction from Papalote which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 980 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 1000 (OUTLINE ON PLAT.)

Granted 6/23/97

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Heard Ranch (3900)		467/1200	40	40	No	NA	G		1
40032594		[illegible]							

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit 980' FNWL & 4142' FSWL
- Survey/Section 980' FNWL & 4445' F Ext. SWL

If a directional well, show also projected bottom-hole location:
- Lease/Unit
- Survey/Section

23. Is this a pooled unit? Yes ☐ (Attach Form P-12 and certified plat.) No ☒
24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ (Attach Form W-1A) No ☒
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ If not filed, explain in Remarks.
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes ☒ No ☐ If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

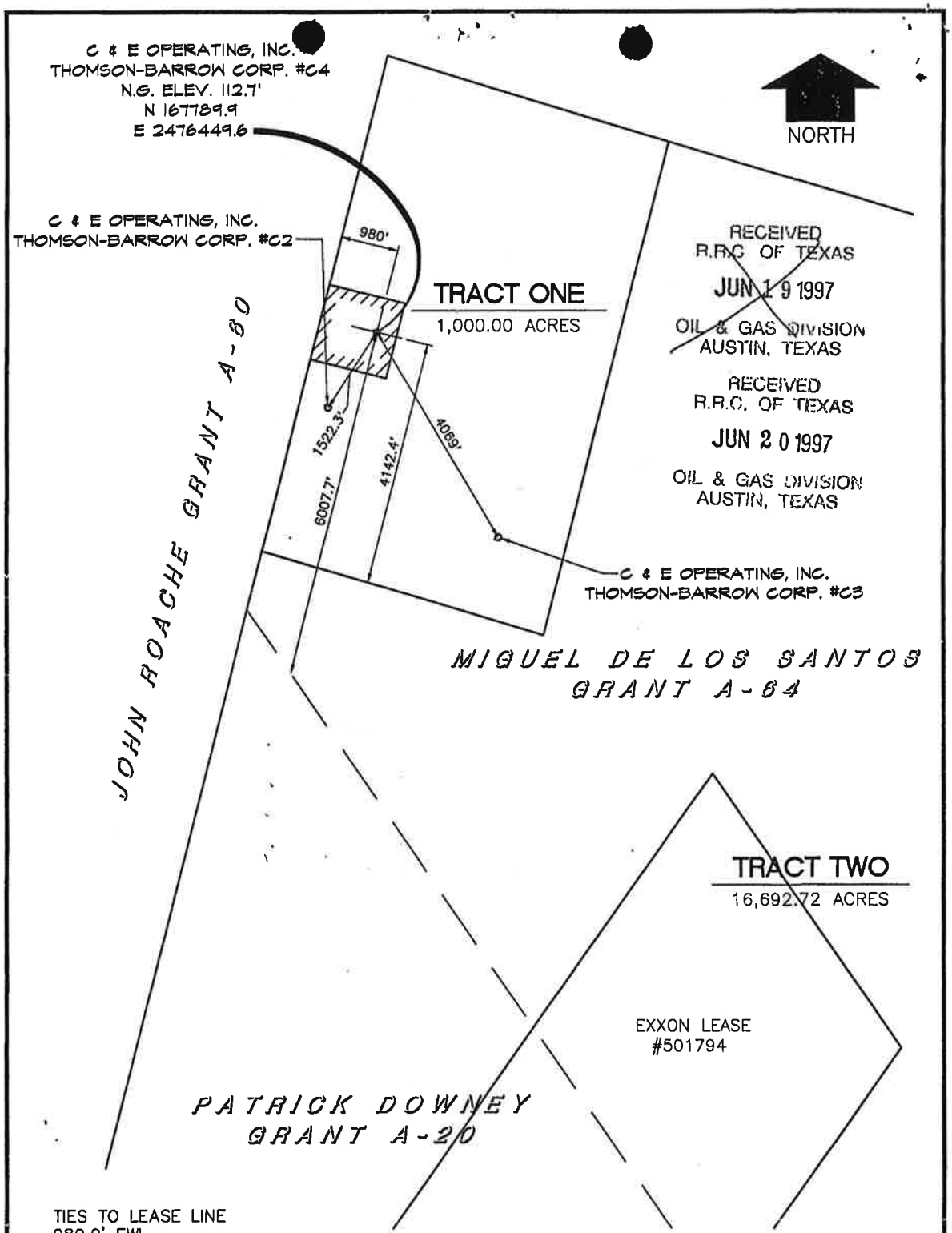
Remarks: Amended to include Heard Ranch (3900)

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening, President
Signature: Terry L. Boening
Name and title of operator's representative
Date: 06/19/97 (mo. day yr.)
Tel.: 281/265-6500 (Area Code Number)

\#150 App \#50 WT • RRC Use Only •
213432 JUN 2097
460660

025 32822



TIES TO LEASE LINE
980.0' FWL
4142.4' FSL

TIES TO SURVEY LINES
980.0' FWL
6007.7' FSL

DISTANCE FROM NEAREST TOWN
12 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MARCH 21, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR FOR TEXAS NO. 3589

3-26-97
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C4
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

DWG. NO. :	9773-502
SCALE :	1" = 2000'
DATE :	03/97
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

Form W-1
Rev 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to: Railroad Commission of Texas, Oil and Gas Division, Drilling Permits, P. O. Box 12967, Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes): [X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32822 ▶ Permit No. 460660 ▶ Rule 37 Case No.

1 Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
953535

6 Lease Name (32 spaces maximum): Thomson-Barrow Corp. C
7. RRC Lease/ID No.:
8 Well No.: 4
9. Total Depth: 6000'

10. Location
• Section _____ Block _____ Survey Miguel De Los Santos Grant Abstract No. A- 64
• This well is to be located 6.2 miles in a northeast direction from Papalote which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 980 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 1000 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6000) 4001	6000	467/1200	40	40	No	1522, 3	O/G	3	3
Burkes Ridge (2040) 1355182	2040	467/1200	40	40	No	1522, 3	G		3
Burkhollow (2600) 1360503 SWC	2600	467/1200	40	40	No	1522, 3	G		3

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 980' FNWL & 4142' FSWL
• Survey/Section 980' FNWL & ~~6008'~~ FSWL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks

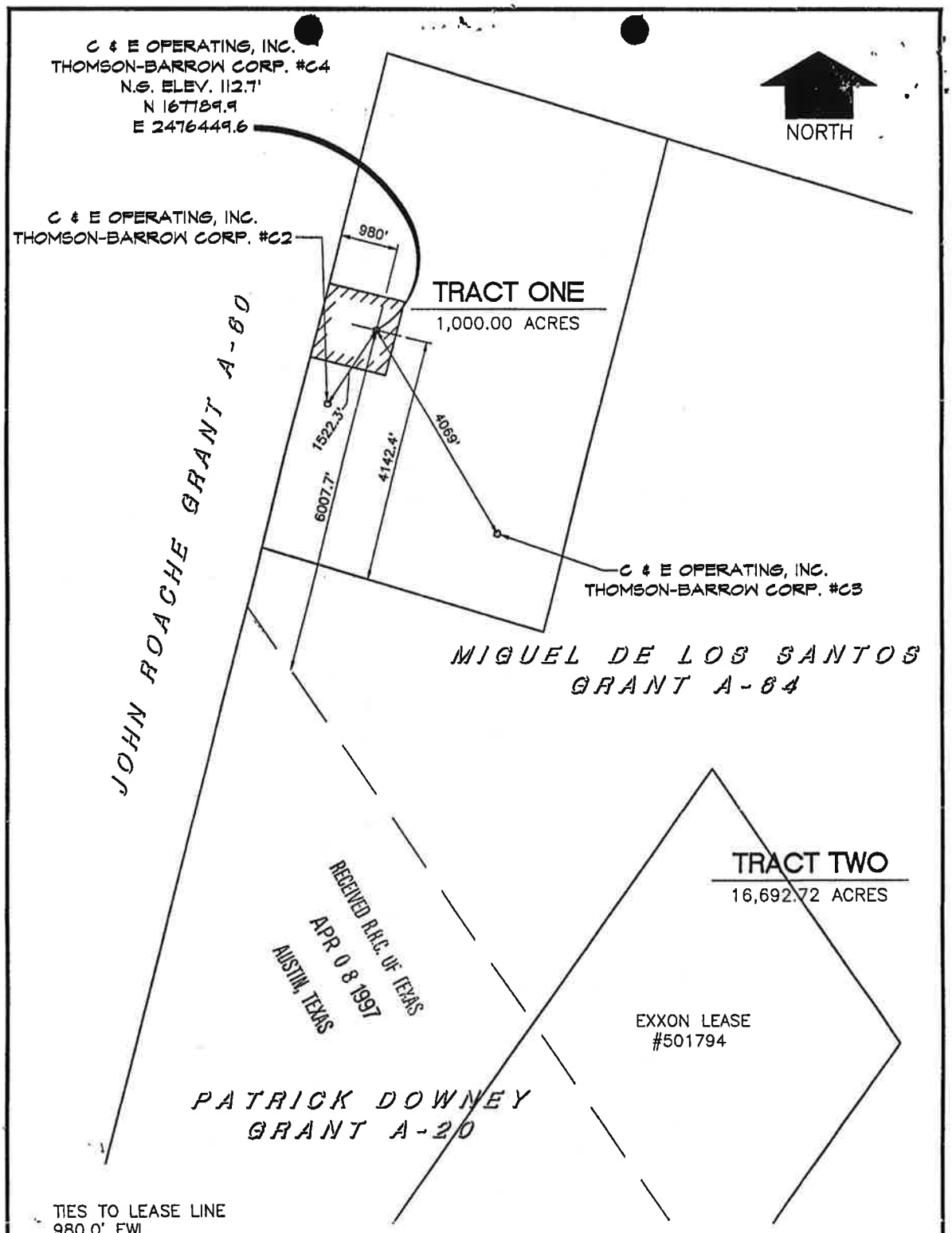
I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: Terry L. Boening
Name and title of operator's representative: Terry L. Boening President

Date: 3 mo. 31 day 97 yr. Tel: 281 Area Code 265-6500 Number

150.00 APP
50.00 209708 APR 97

• RRC Use Only •
460660



TIES TO LEASE LINE
980.0' FWL
4142.4' FSL

TIES TO SURVEY LINES
980.0' FWL
6007.7' FSL

DISTANCE FROM NEAREST TOWN
12 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MARCH 21, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURV

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

3-26-97
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C4
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

JOB NO. :	9773-502
SCALE :	1" = 2000'
DATE :	03/97
DWN BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

MAP ID #63

API# 42-025-31430
DRY HOLE

Laura Thompson B #15

(63)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (if available) 025 31430

1. RRC District: 2

4. RRC Lease or Id. Number: 06494

5. Well Number: 15

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records): Wildcat

3. Lease Name: LAURA D. THOMSON 'B'

6. OPERATOR: EXXON CORPORATION

6a. Original Form W-1 Filed in Name of:

10. County: BEE

7. ADDRESS: P.O. BOX 2528, CORPUS CHRISTI, TX 78403-2528

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 10-17-80

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 6125 Feet From N Line and 3025 Feet From E Line of the LAURA D. THOMSON 'B' Lease

12. Permit Number: 096051

9a. SECTION, BLOCK, AND SURVEY: MIGUEL DE LOS SANTOS A-64

9b. Distance and Direction From Nearest Town in this County: 10 mi NE of SKIDMORE

13. Date Drilling Commenced: 10-25-80

16. Type Well (Oil, ~~Gas, Dry~~): Total Depth: 6000

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 11-1-80

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 4-9-86

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	4-7-86	4-7-86	4-8-86	4-9-86				
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8	2 7/8	8 5/8	8 5/8				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4204	2870	1600	40				
*22. Sacks of Cement Used (each plug)	5	10	80	10				
*23. Slurry Volume Pumped (cu. ft.)	5.3	10.6	96	10.6				
*24. Calculated Top of Plug (ft.)	4041	2544	1338	6				
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	16.4	16.4	15.6	16.4				
*27. Type Cement	H	H	H	H				

RECORD CODIFICATION
JUN 18 1986

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	1544	1544	12 1/4
2 7/8	6.4	5982	4367	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	2872	TO	2882	FROM		TO	
FROM	5054	TO	5059	FROM		TO	
FROM	5718	TO	5724	FROM		TO	
FROM		TO		FROM		TO	
FROM		TO		FROM		TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Roywell Services Inc.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Linda Annin — REPRESENTATIVE OF COMPANY: LINDA ANNIN

PRORATION SPECIALIST — TITLE

JUN 10 1986 — DATE

Phone 512/887-2228 — A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

JUN 11 1986

025-31430

101

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission	☑ Yes ☐ No	32. How was Mud Applied? PUMPED THRU TUBING	33. Mud Weight 9.5 LBS/GAL

34. Total Depth 6000	Other Fresh Water Zones by T.D.W.R. TOP / BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? ☑ Yes ☐ No
Depth of Deepest Fresh Water 1475		36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: ROYWELL SERVICES INC. 3229 D'AMICO HOUSTON TX 77019

Date RRC District Office notified of plugging

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-2
Rev. 6/12/78

API NO. (Assigned) 42-025-31440

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. RRC District: 2
2. RRC Lease Number: 06494
3. Well Number: 15
4. Check type of completion: Oil Well X
5. Purpose of Test: Initial Potential X; Retest; Recheck
6. Date of Completion or Recompletion: 12-30-80

Wildcat
EXXON CORPORATION 257097

7. Address: WILSON TOWER, CORPUS CHRISTI, TEXAS 78476
8. If Operator has changed within last 60 days — Name former operator

9. Lease Name: LAURA D. THOMSON "B"
10. Location (Section, Block, and Survey): MIGUEL DE LOS SANTOS A64
11. Distance and Direction to nearest town in this county: 10 MILES NE OF SKIDMORE
12. If Gastower or Recheck, Give former Field with Reservoir & the ID or Oil Lease #
13. FIELD & RESERVOIR
14. GAS ID or OIL LEASE #
15. Oil - G Gas - G
16. WELL #
17. Type of Electric or other Log run

SECTION I

POTENTIAL TEST DATA

19. Date of Test	20. No. of Hours Tested	21. Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump)	22. Choke Size

23. Production During Test Period	Oil - BBLS	Gas - MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
24. Calculated 24 Hour Rate	Oil - BBLS	Gas - MCF	Water - BBLS	Oil Gravity - API - 60°	Casing Pressure PSI

25. Was Swab Used During this Test? Yes No
26. Oil Produced Prior to Test (New & Reworked Wells)
27. Injection Gas-Oil Ratio

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not precede such more than ten (10) days prior to receipt and acceptance of the potential test form. Such provision shall govern regardless of whether the potential test is taken during the month of assignment or any time thereafter. This test may be taken any time month. Fill in only the front of this Form when reporting only a potential test. If well is newly completed, fill in reverse side also.

MAY 10 1982 JUN 2 1982

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings on the tap and bottom gauges shown hereon, whichever is applicable, into which production was run during duration of this test.

Signature: REPRESENTATIVE OF COMPANY MAKING TEST
List of Offset Operators Notified and Date Notified

Signature: REPRESENTATIVE OF RAILROAD COMMISSION
List of Offset Operators Notified and Date Notified

An inclination survey has been run in accordance with Statewide Rule 11 and the results are available upon request. Maximum horizontal displacement was _____ feet at a measured depth of _____ feet.

Signature of Authorized Representative

Name of Company Conducting Survey

I have knowledge that the cementing operations, as reflected by the information found on the reverse side of this form, were performed as indicated by such information.

Signature of Cementer or Authorized Representative

Name of Cementing Company

JUN 2 1982

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report; that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

G. F. Presson — REGULATION SPECIALIST — JUN 25 1982 — 512/887-2228
REPRESENTATIVE OF COMPANY: G. F. PRESSON — TITLE — DATE — A/C NUMBER

VALID PERMIT
PRODUCTION ALLOCATION
JAN 17 1983

SECTION II

DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24. Type of Completion: New Well X Deepening ☐ Plug Back ☐ Other ☐

25. Permit to Drill, Plug Back or Deepen — DATE 10-17-80 — PERMIT NO. 096051

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

26. Notice of Intention to Drill this Well was filed in Name of: EXXON CORPORATION

27. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: —

28. Total Number of Acres in this lease: 10500

29. Date Plug Back, Deepening, Workover or Drilling Operations — Commenced 10-25-80 — Completed 11-1-80

30. Distance to Nearest Well, Same Lease & Reservoir: —

31. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 6125 Feet From N Line and 3025 Feet From E Line of the LAURA D. THOMSON "B" Lease

32. Elevation (DF, RKB, RT, GR, ETC): 123.6' DF

33. Was Directional Survey Made Other Than Inclination (Form W-12)? ☐ Yes X No

34. Top of Pay: —

35. Total Depth: 6000

36. P. B. Depth: 4980

37. Surface Casing Determined by: Field Rules ☐ Recommendation of T.D.W.R. X Railroad Commission (Special) ☐ Dt. of Ltr. 10-9-80

38. Is Well Multiple Completion? No

39. If Multiple Completion List All Reservoir Names (Completions in this Well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

40. Intervals Drilled by: Rotary Tools X Cable Tools

41. Name of Drilling Contractor: HARKINS & Co.

42. Is Cementing Affidavit Attached? X Yes ☐ No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT. / FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (Sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	1544.07		CLA 690 SX	12 1/4	SURFACE	1212
2 7/8	6.4	5982.21	4195	CLH 980 SX	7 7/8	1800	1303.40

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set

46. Producing Interval (this completion) indicate Depth of Performance or Open Hole

From 2872 To 2882
From To
From To
From To

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

Depth Interval	Amount and Kind of Material Used
5718-24	SQD w/20 SX CMT
5016-15	SQD w/35 SX CMT
5054-59	CIBP @ 5000 w/20' CMT ON TOP.

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Cl SD & SH	0-3645	SH	5912-6000
SH	3645-5035		
SD & SH	5035-5912		

REMARKS: UNSUCCESSFUL COMPLETION. HOLD FOR FATURE SALT WATER DISPOSAL

0 0 0 9 9 0 3 3 9

0

RAILROAD COMMISSION OF TEXAS

Form W-12
(1-5-75)

6. RRC District	2
7. RRC Lease Number (Oil completions only)	
8. Well Number	15
9. RRC Identification Number (Gas completions only)	
10. County	Bee

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Wildcat
2. LEASE NAME: Laura D. Thomson "B"
3. OPERATOR: Exxon Corporation
4. ADDRESS: Wilson Tower, Corpus Christi, Texas 78476
5. LOCATION (Section, Block, and Survey): Miguel De LosSantos A-64

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
487	4.87	1/4	.436	2.12	2.12
1480	9.93	3/4	1.31	13.00	15.12
2470	9.90	1/4	.436	4.32	19.43
3446	9.76	1	1.75	17.08	36.51
4422	9.76	1/2	.87	8.49	45.00
5399	9.77	1/4	.436	4.26	49.26
6000	6.01	1/2	.87	5.23	54.49

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no
18. Accumulative total displacement of well bore at total depth of 6000 feet = 54.49 feet.
*19. Inclination measurements were made in — ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line 3025 feet.
21. Minimum distance to lease line as prescribed by field rules 467 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No
(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

C. S. Mapes
Signature of Authorized Representative

C. S. Mapes
Name of Person and Title (type or print)

Harkins & Co.
Name of Company

Telephone: 512 (Area Code) 664-5533

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Charles H. Smith
Signature of Authorized Representative

Charles H. Smith, Drlg. Tech.
Name of Person and Title (type or print)

Exxon Corporation
Operator

Telephone: 512 (Area Code) 887-2200

Railroad Commission Use Only:

Approved By: Virginia A. Davis Title: Stat. III Date: 6-29-82

JUN 2 1982

* Designates items certified by company that conducted the inclination surveys.

2 0649

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev 5-1-80)

CEMENTING REPORT

*1. Field Name (as per RRC) WILDCAT
*2. RRC District 2
*3. Operator EXXON CORPORATION
*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA D. THOMSON "D"
*6. Well Number 15
*7. Location (Section, Block, and Survey)

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	10-25-80					
*9. (a) Size of Drill Bit (inches)	12¼					
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)	8⅝					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1540'					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	remarks					
(b) In Second Slurry	"					
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	390					
(b) In Second Slurry	300					
(c) In Third Slurry						
(d) Total Sacks of Cement Used	690					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.2					
(b) In Second Slurry	1.18					
(c) In Third Slurry						
16. Volume of Slurry Pumped (cu.ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry	858					
(b) In Second Slurry	354					
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	1212					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	1550					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. DISTRICT 2
JUN 3 1982

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

2 06594

26. Remarks: Exxon Co., USA
L D Thompson, B-15
San Patricio Co. TX
13a. A + 8%gel + 3%A-5
b. A + 2%A-7

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Mike Rachui
Signature of Cementer or Authorized Representative

Mike Rachui, cementer
Name of Person and Title (type or print)

BJ-Hughes, Inc.
Cementing Company

P O Box 4027
Street Address or P. O. Box

Corpus Christi, Texas 78408
City, State Zip Code

Telephone 512 8884-6685
Area Code

10-25-80
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

G F Presson
*Signature of Operator or Authorized Representative

G. F. PRESSON PRODUCTION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER
*Street Address or P. O. Box

CORPUS CHRISTI, TX 78476
*City, State Zip Code

512/887-2228
*Telephone
Area Code

JUN 25 1982
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules or if exception is needed to cementing requirements in Statewide or Special Rules, unless the Form G-1 or W-2 is signed by the cementing company representative.
   (2) Each copy of Form W-3 unless the Form W-3 is signed by the cementing company representative.
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13 and 14. For offshore operations Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water by:
   (1) Field Rule
   (2) Texas Water Development Board if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing. (Statewide Rules, Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING AND ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. If 10 feet cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev 5-1-80)

*1. Field Name (as per RRC R.
WILDCAT
2 RRC District
*3 Operator
EXXON CORPORATION
4 County
BEE
*5 Lease Name(s) and RRC Lease Number(s) or I.D. Number(s)
CAURA D. THOMPSON "B"
*6 Well Number
15
*7 Location (Section, Block, and Survey)

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8 Cementing Date					11-06-80	11-7-80
*9 (a) Size of Drill Bit (inches)					7 7/8	7 7/8
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10 Size of Casing (inches O.D.)					2 7/8	2 7/8
*11 Top of Liner (if liner used) (ft.)						
*12 Setting Depth of Casing (ft.)					498	5[illegible]
13 Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)					cemented	remarks
(b) In Second Slurry					remarks	
(c) In Third Slurry						
14 Sacks of Cement Used: (a) In First (Lead) or Only Slurry					250	605
(b) In Second Slurry					125	
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15 Slurry Volume per Sack of Cement (cu. ft./sack): (a) In First (Lead) or Only Slurry					1.37	1.33
(b) In Second Slurry					1.33	
(c) In Third Slurry						
16 Volume of Slurry Pumped (cu. ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry					33.25	804.65
(b) In Second Slurry					166.25	
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu. ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)					498.75	804.65
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)					4600	1850
					no	no

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)					JUN 2 1982	
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

2 04494

26. Remarks Exxon Co., USA L.D. Thompson B-15 San Patricio Co., Tx. * 1st Stage -Lead H+ 30#/sk 40-60 sand+ 8% D-19 + 2% R-5 Tail: H + 30#/ sk 40-60sand + 1% R-5	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Jeff Rackley

Signature of Cementer or Authorized Representative

Jeff Rackley - Service Eng.

Name of Person and Title (type or print)

BJ Hughes

Cementing Company

P.O. Box 4027

Street Address or P.O. Box

Corpus Christi, Tx 78403

City, State Zip Code

Telephone 512 884-6685

Area Code

11-10-80

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers well data and information presented herein.

G F Presson

*Signature of Operator or Authorized Representative

G. F. PRESSON

PRORATION SPECIALIST

*Name of Person and Title (type or print)

EXXON CORPORATION

*Operator

WILSON TOWER

*Street Address or P.O. Box

CORPUS CHRISTI, TX 78476

*City, State Zip Code

512/887-2228

*Telephone

Area Code

JUN 25 1982

*Date

INSTRUCTIONS

1. A. This form shall be filed in the operator in the RRC District Office with
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules or if exception is needed to cementing requirements in Statewide or Special Rules, unless the Form G-1 or W-2 is signed by the cementing company representative
   (2) Each copy of Form W-3 unless the Form W-3 is signed by the cementing company representative
   (3) Each copy of Form W-4 if a multiple parallel casing completion
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13 and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water by
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION
5. If setting NO SURFACE CASING (See Item 4 above):
   A. If no multi stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface
   B. If using the multi stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface
6. If setting SHORT SURFACE CASING (See Item 4 above):
   A. Cement short surface casing from the shoe to the surface
   B. Whether the multi stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands or
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least the third of the distance from the shoe of the surface string to the surface
7. Setting PRODUCTION STRING of Casing (Statewide Rules, Special Rules may vary):
   A. Cement to a point at least 600 feet above the casing shoe
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe
8. PLUGGING AND ABANDONING
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed
   C. A 10 foot cement plug is required to be placed in the top of the well

EXHIBIT No. 12

FORM 9-1 (6/78)

API Well No. 42 Instruction (7a & b) on back side. 025 31430

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Directional Well | Amended or Corrected Permit

#096051

RRC Permit Number, if previously assigned.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: XX DRILL | DEEPEN (Below Casing) | DEEPEN (Within Casing) | PLUG BACK | OTHER (Specify)

If Amended Application, explain fully in Remarks or Attach Separate Page

1. Operator: Exxon Corporation 251097
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78476
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES XX NO (Instruction (2) on back side)
4. Lease Name and RRC Lease or ID No. (If Assigned): Laura D. Thomson "B"
5. Location (Sec., Blk., Survey): Miguel De Los Santos A-64
6. This well is to be located 10.1 miles Northeast Direction from Skidmore, Texas Nearest Post Office or Town.
7. RRC District: 2
8. County: Bee
9. Well Number: 15
10. Number of Acres in Lease: 10500
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 3025
12. Total Depth: 6400

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. 06004 001	14. Completion Depth	15. All Prior Rule 37 Exc. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200 (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40, acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same field? Yes or No. If yes explain in remarks.)	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested: OIL	GAS
Wildcat above	6400	---	467-1200	40	40	No	----	Regular 1 X / Rule 37 2	Oil or Gas	----	-----
								Regular 1 / Rule 37 2			
								Regular 1 / Rule 37 2			
								Regular 1 / Rule 37 2			

13 8

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED:
A. Lease Lines 6125' from the North line & 3025' from the East line
B. Survey Lines 9400' from the North line & 475' from the WEst line

25. (a) Is this wellbore subject to SWR 36? Yes No X
(b) If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, ascertain the depth to which fresh water sands must be protected.

RECEIVED RRC OF TEXAS OCT 3 1980 O.G. SAN ANTONIO, TEXAS

REMARKS app. 10/17/80

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

G F Presson G. F. Presson
Signature

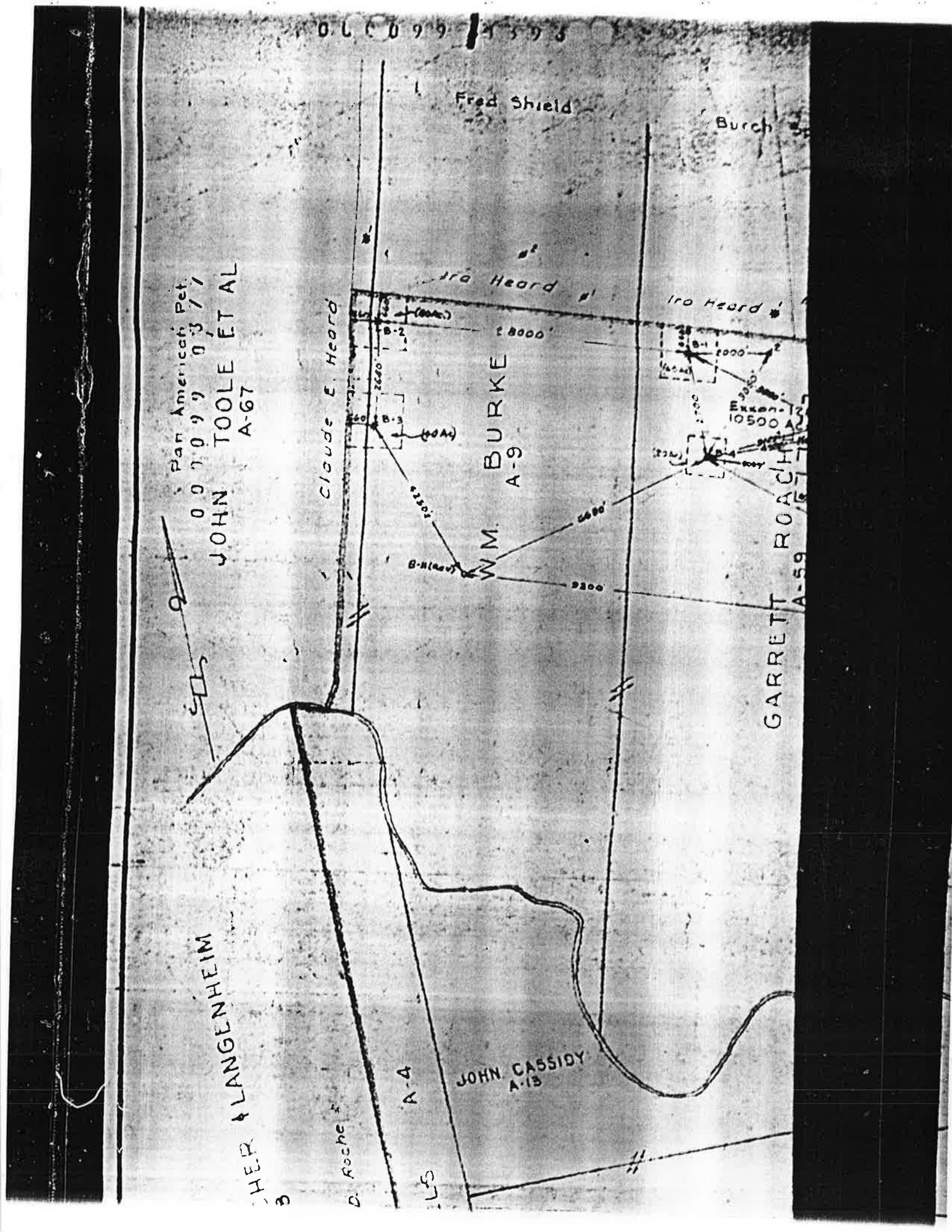
Proration Specialist
Title

October 2, 1980
Date

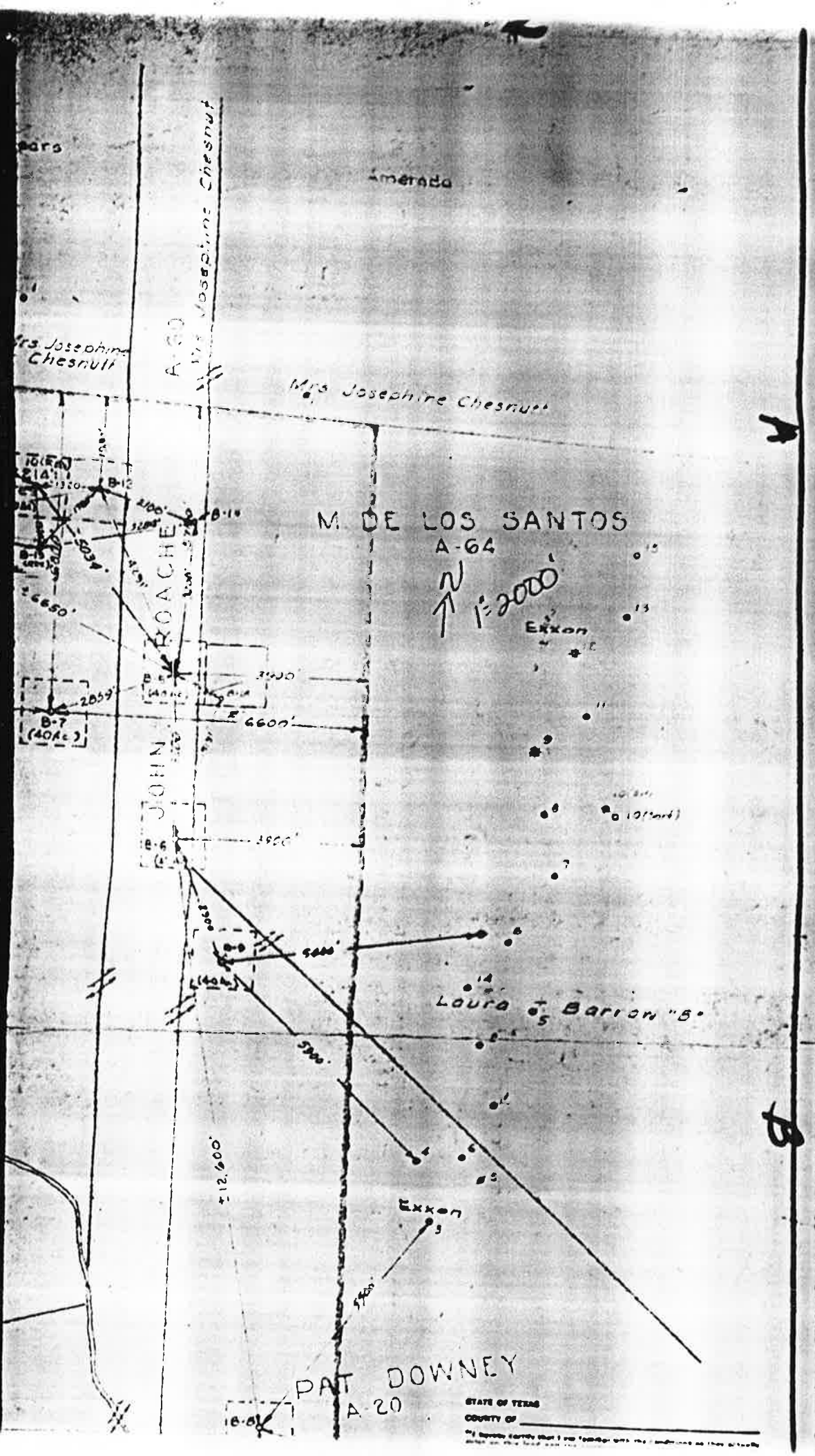
Telephone Area Code 512-887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

025-31430



Fred Shield
Burch
Iro Heard
Iro Heard
Claude E. Heard
Pan American Pet.
JOHN TOOLE ET AL
A-67
WM. BURKE
A-9
GARRETT ROACH
A-59
Exxon-12
10500 Ac
B-1
B-2
B-3
B-4
B-11(Rev)
8000'
2000'
9300'
LANGENHEIM
JOHN CASSIDY
A-13
A-4



Amerada
Mrs Josephine Chesnut
Mrs Josephine Chesnut
Mrs Josephine Chesnut
M. DE LOS SANTOS
A-64
1"=2000'
Exxon
JOHN ROACHE
A-60
B-12
B-14
B-15
B-7
(40 Ac.)
B-6
6650'
6600'
3900'
5400'
5900'
±12,600'
Laura Barrow "B"
Exxon
PAT DOWNEY
A-20
STATE OF TEXAS
COUNTY OF

MAP ID #64

API# 42-025-02477
GAS WELL
PLUGGED

(64)

0024 214

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/65

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2
RRC Lease or Id. Number: 32613
Well Number: 5

2 FIELD NAME (RRC Reporting): BURK HOLLOW (2600)
3 LEASE NAME: LAURA D. THOMSON 'B'
4 OPERATOR: HUMBLE OIL & REFINING COMPANY
5 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
6 SURFACE LOCATION: 5700 FEET FROM SW OF NE LINE, AND 3900 FEET FROM NW OF SE LINE
7 SECTION, BLOCK AND SURVEY: JOHN ROACH (A-60)
10. County: BEE
11. Date Drilling Permit Issued: 12-11-63
12. Date Drilling Commenced: 12-12-63
13. Date Drilling Completed: 2-23-64
14. Date Well Plugged: 8-2-71
15. Type of Well (Oil, Gas, Dry*): GAS
16. Type of Completion (Single, Dual, Etc.): SINGLE
17. Total Depth: 6000
18. FORM W-1 (Intent to Drill) Filed in Name of: HUMBLE OIL & REFINING COMPANY

19. Manner of Placement:

PLUG #1	12	SACKS	TOP	4480	BOTTOM	4860	TYPE CLASS A
PLUG #2	1	SACKS	TOP	15	BOTTOM	5	TYPE CLASS A
PLUG #3	7	SACKS	TOP	30	BOTTOM	5	TYPE CLASS A
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20. Was Well Filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES X NO
21. How was Mud applied? PUMP
22. Mud Weight: 10.0 LBS/GAL
23. Depth of Deepest Fresh Water: 1600 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO
25. If NO, Explain:
26. Name and Address of Party Plugging Well: FISH OIL WELL SERVICING COMPANY, P.O. BOX 1057, BEEVILLE, TEXAS 78102
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	1986.06		1986.06	
2 7/8"	5269.03		5269.03	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases:

RECEIVED
R.R.C. OF TEXAS
JAN 10 1972
O.D.
SAN ANTONIO, TEXAS

29. Was Notice given before Plugging to each of the above and RRC District Office? YES X NO

CERTIFICATE:

I declare under penalties prescribed in Article 6033c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

Brady Coyle — REPRESENTATIVE OF COMPANY
PRORATION SPECIALIST — TITLE
1-6-72 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

DR-OK

*All Dry Holes, Fill in Reverse Side.

C.O 2-21 E

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 1-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): BURK HOLLOW (2600)
*2. RRC District: 2
*3. Operator: HUMBLE OIL & REFINING COMPANY
*4. County: BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): LAURA D. THOMSON B 32613
*6. Well Number: 5
*7. Location (Section, Block, and Survey): JOHN ROACH (A-60)

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used. (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry Behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

RECEIVED
R.R.C. OF TEXAS
JAN 10 1972
O.G.
SAN ANTONIO, TEXAS

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	7-31-71	8-2-71	8-2-71			
*20. Size of Hole or Pipe in which Plug Placed (inches)	27/8"Csg	27/8"Csg	27/8X85/8annulus			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4860'	15	30'			
22. Sacks of Cement Used (each plug)	12	1	7			
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)	4480	5	5			
*25. Measured Top of Plug (if tagged) (ft.)						

2-07-22613

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

— OVER —

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:	*27. Remarks:
30	

CEMENTING COMPANY

I declare under penalties prescribed in Article 6035c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Howard E. Fish
Signature of Cementer or Authorized Representative

Howard E. Fish, President
Name of Person and Title (type or print)

Fish Oil Well Servicing Co.
Cementing Company

P. O. Box 1057
Street Address or P.O. Box

Beeville, Texas 78102
City, State Zip Code

Telephone 512 358-2505
Area Code

11-27-71
Date

***OPERATOR**

I declare under penalties prescribed in Article 6035c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

HUMBLE OIL & REFINING CO.
*Operator

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

1-6-72
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement [redacted] used in each plug shall be a slurry volume [redacted] to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

002 1905

AFFIDAVIT ON CEMENTING

STATE OF TEXAS

COUNTY OF Refugio

CS 755314

I, William A. Foster, being of lawful age, do state that I am employed by the Halliburton Oil Well Cementing Company in the capacity of cementer, and that on 3 day of January, 19 64, the HALLIBURTON COMPANY rented equipment and personnel to Humble Oil & Refg. Co. for the purpose of cementing the (production, production protection, surface) string of casing in their Well Number B-5 Thompson Lease, located in Refugio County, Texas. Information provided me by the customer company, his agent or representative, states that the above string of casing was size 2 7/8" O.D., set in 7 7/8" inch drilled hole, and that casing depth set was 5204 feet.

For this cement job, I mixed the following:

140 Common	Sacks	12% Gel .4% HR-7	Admix
50 Common	Sacks	40% Diacel "D"	Admix
100 Common	Sacks	12% Gel .4% HR-7	Admix

Based upon the above information, according to my cement tables, I have calculated that the above volume of cement will fill up an annular height of 2506 feet between 2 7/8" casing and 7 7/8 hole. The work performed was done under the direction, supervision and control of the said Humble Oil & Refg. Co. (customer).

AFFIANT: William A. Foster
HALLIBURTON COMPANY employee.

STATE OF TEXAS

COUNTY OF Refugio

BEFORE ME, the undersigned authority, on this day personally appeared William A. Foster, known to me to be the person whose name is subscribed to this statement, who, after being duly sworn upon oath states: That to the best of his knowledge and belief the facts as recited above are true and correct.

Given under my hand and seal this 5 day of January, 19 64.

(Notary Seal)

RECEIVED
MAR 31 1964
O. G.
AUSTIN, TEXAS

Notary Public, in and for Refugio County, Texas.

Rt. 1 Box 47 Refugio, Texas 0 6

AFFIDAVIT ON CEMENTING

STATE OF TEXAS

COUNTY OF Brooks CS 046183

I, R. J. Speis, being of lawful age, do state that I am employed by the Halliburton Oil Well Cementing Company in the capacity of Cementer, and that on 19 day of December, 19 63, the HALLIBURTON COMPANY rented equipment and personnel to Humble Oil & Ref. Co. for the purpose of cementing the _____ (production, Surface protection, surface) string of casing in their Well Number 5 Thompson 'B' Lease, located in Refugio County, Texas. Information provided me by the customer company, his agent or representative, states that the above string of casing was size 8 5/8 O.D., set in 12 ¼ inch drilled hole, and that casing depth set was 2000 feet.

For this cement job, I mixed the following:

825 Common Sacks 8% Gel. Admix

_____ Sacks _____ Admix

_____ Sacks _____ Admix

Based upon the above information, according to my cement tables, I have calculated that the above volume of cement will fill up an annular height of 3838 feet between 8 5/8 casing and 12 ¼ hole. The work performed was done under the direction, supervision and control of the said Humble Oil & Ref. Co. (customer).

AFFIANT: R. J. Speis
HALLIBURTON COMPANY employee.

STATE OF TEXAS

COUNTY OF Brooks

BEFORE ME, the undersigned authority, on this day personally appeared R. J. Speis, known to me to be the person whose name is subscribed to this statement; who, after being duly sworn upon oath states: That to the best of his knowledge and belief the facts as recited above are true and correct.

Given under my hand and seal this 24 day of March, 19 64.

(Notary Seal)

RECEIVED
R. R. C. OF TEXAS
MAR 31 1964
O. G.
AUSTIN, TEXAS

H. M. Oliver
Notary Public, in and for Brooks County, Texas. H. M. Oliver

Application to Drill, Deepen or Plug Back.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK DRILL

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE.
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND

COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling, operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line over 467 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 6650 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date December 6, 19 63

Name of company or operator

Name Humble Oil & Refining Company

Address Wilson Tower

City Corpus Christi, Texas 78401

Description of farm or lease:

Name of Lease Laura D. Thomson "B"

Number of Acres 10,500 Well No. 5

Number of wells on lease 4

Elevation (Ft. above sea level) Section No. Block No.

Survey John Roach (A-60)

Zone or Reservoir

To be Located in Wildcat Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.)

Bee County

Approx. 9 Miles Northeast direction from

Papalote, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling As soon as permitted

Depth to which you propose to drill 6500 feet.

Date work will start deepening

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name

Address

RECEIVED
DEC 10 1963
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

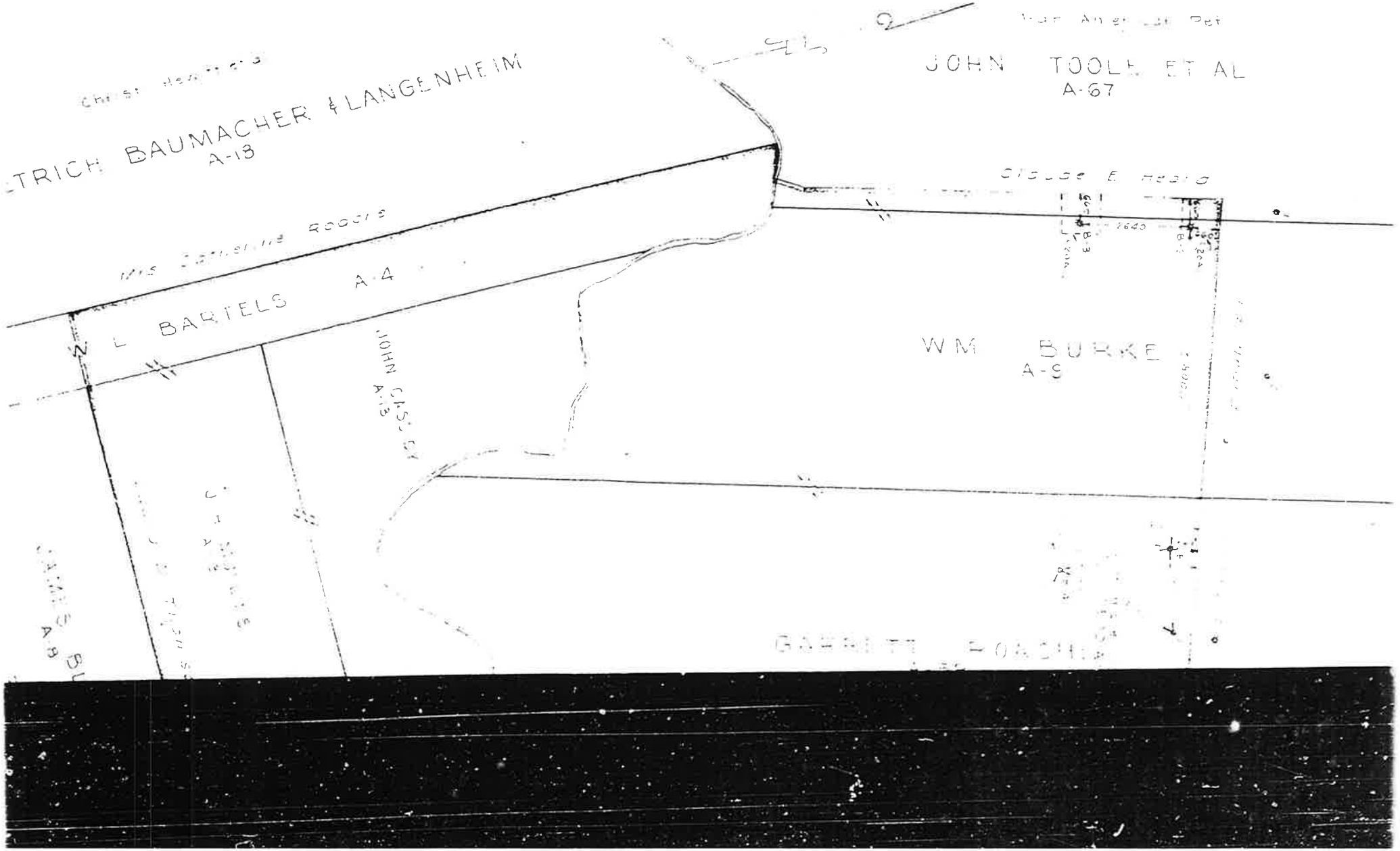
Loc: 5700' SW of the NE line and 3900' NW OF THE SE line of the lease; also being approx. 6650 SE of Laura D. Thomson "B" #4 (Scales 2700' NE along the SE line of the John Roach Survey from the W corner of the M. De Los Santos Survey & 600' NW of and perpendicular to the SE line of the John Roach Survey.

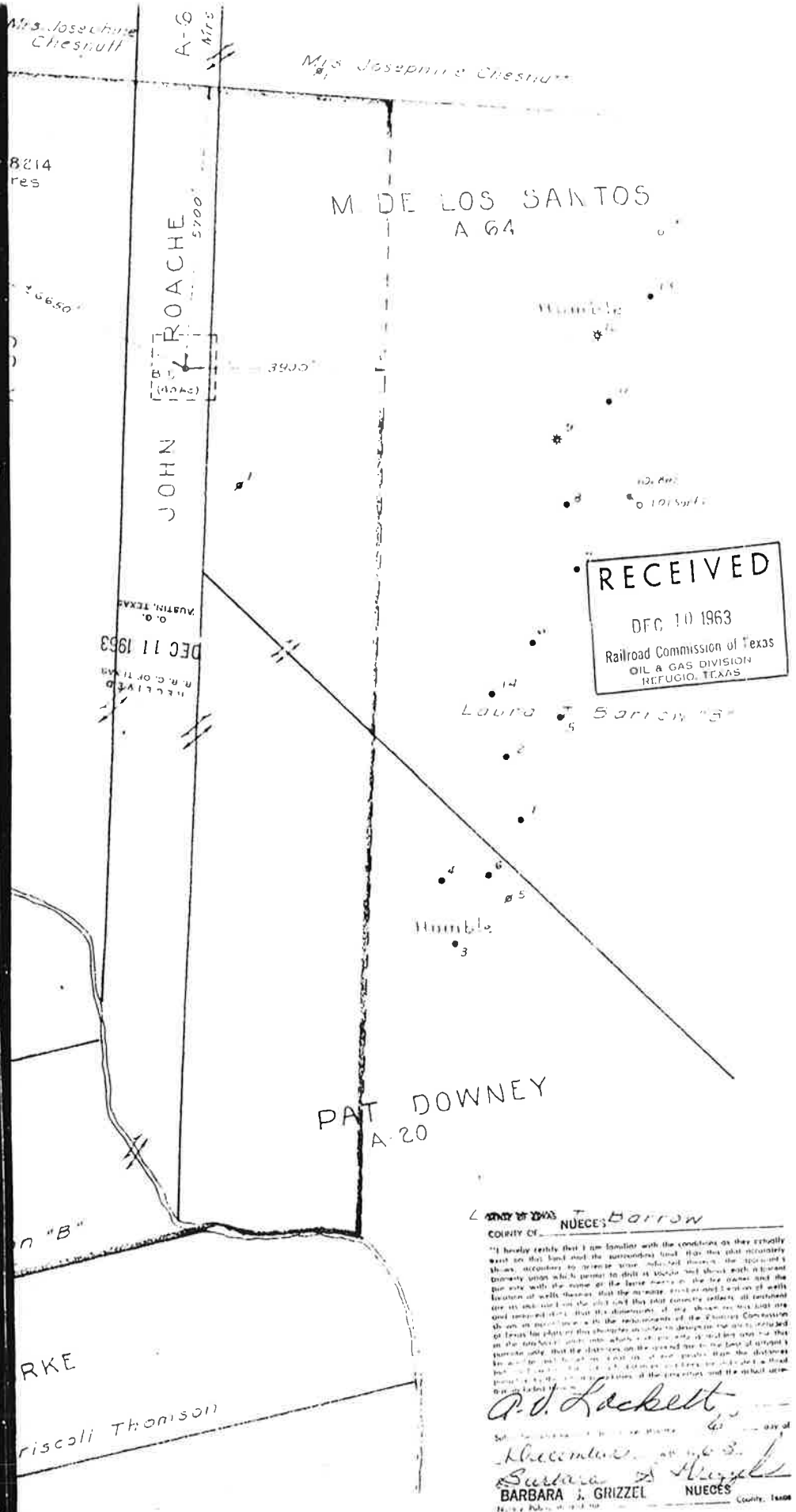
NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

DEC 11 1963

025-02477


JOHN TOOLE ET AL
A-67
TRICH BAUMACHER & LANGENHEIM
A-13
L BARTELS A-4
WM BURKE
A-5
JOHN CASEY
A-13



APPLICATION FOR LOCATION # B-5

R.R. COMM.

LAURA D. THOMSON "B" LSE # 28214

REVISIONS			
DESCRIPTION	BY	CHK.	APPR.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2
Well Record

File No.....

Operator HUMBLE OIL & REFINING COMPANY Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

County BEE Survey JOHN ROACH (A-60) Block No. — Sec. No. —

Lease Name LAURA D. THOMSON "B" Well No. 5 Elevation 122' DF (Above Sea Level)

Name of Field in which well is located BURK HOLLOW (2600' SAND)

Form 1 (Notice of Intention to Drill) Was Filed in Name of HUMBLE OIL & REFINING COMPANY

Is this a NEW WELL? YES DEEPENING? ..... or a WORK-OVER? .....

If this is a NEW WELL, show when drilling commenced and when drilling was completed

If this is a PLUG-BACK or DEEPENING operation to a different reservoir, show when work-over commenced and when completed

~~Work Over~~ (Drilling) Commenced 12-12, 1963 ~~Work Over~~ (Drilling) Completed 2-23, 1964

Correspondence regarding this well should be sent to: Name MR. W. J. BARRETT Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

Has an allowable been assigned to this well? NO

SIZE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
8 5/8" & 9 5/8"	1986.06		NONE		1986.06		GUIDE SHOE & FLOAT COLLAR
2 7/8"	5269.03		NONE		5269.03		GUIDE SHOE & FLOAT COLLAR

ABSOLUTE OPEN FLOW POTENTIAL
Initial Production of Gas—Volume 4050 MCF 24 hrs. Pressure 856 lbs. per square inch

Initial Production of Oil: Barrels —

Initial Production of Distillate: Barrels —

Is this an OIL well? ....., a GAS well? YES, or a Dry HOLE? .....

DESCRIPTION OF PROPERTY

NORTH

5700' SW OF THE NE LINE AND 3900' NW OF THE SE LINE OF THE LEASE; ALSO BEING APPROXIMATELY 6650' SE OF LAURA D. THOMSON "B" #4, (SCALES 2700' NE ~~OF~~ ALONG THE SE LINE OF THE JOHN ROACH SURVEY FROM THE W CORNER OF THE M. DE LOS SANTOS SURVEY AND 500' NW OF AND PERPENDICULAR TO THE SE LINE OF THE JOHN ROACH SURVEY.

WEST EAST

GENERAL REMARKS

DRILLED BY RICHARDSON PETROLEUM ENTERPRISES RIG NO. 1.

PERFORATIONS 2574-2580 - (2600' SAND.)

RECEIVED
MAR 30 1964
RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

RECEIVED
MAR 31 1964
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

RECEIVED
R. R. C. OF TEXAS
MAR 31 1964
O. G.
AUSTIN, TEXAS

SOUTH

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
SURFACE CLAY & GRAVEL	0	42	
CLAY & SAND	42	418	
STICKY CLAY	418	803	
SHALE & CLAY	803	1160	
SHALE & SAND	1160	2006	
SAND & SHALE	2006	2300	
SHALE & SAND	2300	4159	
SHALE	4159	5035	
SAND & SANDY SHALE	5035	5125	
SHALE	5125	5164	
SHALE & SAND	5164	5457	
SHALE	5457	5707	
SHALE & SAND	5707	5896	
SHALE	5896	6000	
TOTAL DEPTH		6000	

Method of shutting off water CASING & CEMENT Is water completely shut off? —

Amount of water with oil ..... per cent .....

I, T. W. BYNUM, SR. being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

T. W. Bynum Jr.
Representative of Company.

Subscribed and sworn to before me this 25TH day of MARCH, 19 64

J. L. GALLOWAY

J. L. Galloway
Notary Public
REFUGIO County, Texas.

MAP ID #65

API# 42-025-02760
GAS WELL
PLUGGED

C C 2 4 2 1 4 6

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

R-38

Form W-3
Rev. 9/1/67

1. RRC District: 2

4. RRC Lease or Id. Number: 41734

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

5. Well Number: 7

2. FIELD NAME (as per RRC Records): BURKHOLLOW, W 119001

3. LEASE NAME: LAURA D. THOMSON 'B'

6. OPERATOR: HUMBLE OIL + REFINING COMPANY

10. County: BEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11. Date Drilling Permit Issued: 2-21-67

8. SURFACE LOCATION: 6800 FEET FROM SW OF NE LINE, AND 6600 FEET FROM NW OF SE LINE

12. Date Drilling Commenced: 3-10-67

9. SECTION, BLOCK AND SURVEY: GARRETT ROACH (A-59)

13. Date Drilling Completed: 3-16-67

15. Type of Well (Oil, Gas, Dry)*: GAS

16. Type of Completion (Single, Dual, Etc.): SINGLE

17. Total Depth: 4000

14. Date Well Plugged: 11-30-72

18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL + REFINING COMPANY

19. Manner of Placement

PLUG #6	4		4		64		CLASS A
PLUG #1	10	SACKS	TOP	1740	BOTTOM	1896	TYPE	CLASS A
PLUG #2	10	SACKS	TOP	1655	BOTTOM	1896	TYPE	CLASS A
PLUG #3	35	SACKS	TOP	300	BOTTOM	554	TYPE	CLASS A
PLUG #4		SACKS	TOP	425	BOTTOM	554	TYPE	CLASS A
PLUG #5	15			4		64		CLASS A

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? POWER PUMP

22. Mud Weight: 9.5 LBS/GAL

23. Depth of Deepest Fresh Water: 1600 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25. If NO, Explain

26. Name and Address of Party Plugging Well: FISH OIL WELL SERVICING COMPANY, P.O. BOX 1057, BEEVILLE, TEXAS 78102

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	516.77		511.77	
2 7/8"	2263.74		2258.74	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle — REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST — TITLE

12-19-72 — DATE

DF 42

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R. R. C. OF TEXAS
DEC 21 1972
SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS _____

0024 2145

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev 11-1-69)

CEMENTING REPORT

*1. Well Name (as per RRC Records or Wildcat) BURKHOLDER, W [19001]	*2. RRC District 2
*3. Operator HUMBLE OIL & REFINING COMPANY	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA D. THOMSON B 41734	*6. Well Number 17
*7. Location (Section, Block, and Survey) GARRETT ROACH CA-59	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8 Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date SEE REMARKS #26	11-28-72	11-28-72	11-29-72	11-29-72	11-30-72	11-30-72
*20. Size of Hole or Pipe in which Plug Placed (inches)	27/8 x 8 5/8	2 7/8"	2 7/8"	8 5/8	2 7/8 x 8 5/8	2 7/8
*21. Depth to Bottom of ~~Tubing or Drill Pipe~~ Plug	1896'	1896	(554	554)	64'	64'
22. Sacks of Cement Used (each plug)	10	10	35 SX		15	4
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)	1740	1550	300	425	4'	4

cement squeezed out around bottom of surface.

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Signature of Cementer or Authorized Representative

Howard E. Fish, President

Name of Person and Title (type or print)

FISH OIL WELL SERVICING CO

Cementing Company

P. O. BOX 1057

Street Address or P.O. Box

BEEVILLE, TEXAS 78102

City, State Zip Code

Telephone 512 358-2505
Area Code

12-5-72

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

HUMBLE OIL & REFINING COMPANY

*Operator

WILSON TOWER

*Street Address or P.O. Box

CORPUS CHRISTI, TEXAS 78409

*City, State Zip Code

*Telephone 512 884-4571
Area Code

12-19-72

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

MAP ID #66

API# 42-025-32876
GAS WELL
PLUGGED

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

ORIGINAL

T.B.C. #17

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

API No (if available) 42- 025 32876		1 RRC District 02
		4 RRC Lease or ID Number 168466
2 FIELD NAME (as per RRC records) Burkes Ridge (Greta)	3 Lease Name Thomson-Barrow Corp.	5 Well Number 17
6 OPERATOR C & E Operating, Inc.	6a Original Form W-1 filed in name of	10 County Bee
7 ADDRESS 345 Commerce Green Blvd. Sugar Land, Texas 77478	6b Any subsequent W-1's filed in name of	11 Date Drilling Permit Issued 2/18/98
8 Location of well, relative to nearest lease boundaries of lease on which this well is located	480 feet from east line and 7098 feet from north line of the Thomson-Barrow Corp. lease	12 Permit Number 473454
9a SECTION, BLOCK and SURVEY John Roche A-60	9b Distance and direction from nearest town in this county 8.9 miles NE of Skidmore	13 Date Drilling Commenced 2/21/98

16 Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no 's	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14 Date Drilling Completed
Gas	3000					3/27/98
18 If gas, amt of cond on hand at time of plugging						15 Date Well Plugged 12/11/03

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19 Cementing Date	12-11-03	12-11-03	12-11-03					
20 Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½					
21 Depth to Bottom of Tubing or Drill Pipe (ft)	2410	1200	13					
*22 Sacks of Cement Used (each plug)	20	35	5					
*23 Slurry Volume Pumped (cu ft)	21.6	37.8	5.4					
*24 Calculated Top of Plug (ft)	2300	800	3					
25 Measured Top of Plug (if tagged) (ft)		790						
*26 Slurry Wt. # / Gal	16.4	16.4	16.4					
*27 Type Cement	H	H	H					

RECEIVED
CENTRAL RECORDS
APR 23 2004
12-11-03
AUSTIN, TEXAS

28 CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	378	374	12¼
4½	10.5	2974	2970	7 7/8

29 Was any non-drillable material (other than casing) left in this well? ☐ Yes ☐ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material (Use reverse side of form if more space is needed)

I.N.R.C.C. LETTER DATED 2-19-98
Depth 3100' ft
13(A) Exception Dated 2-19-98
Surface Casing 320' ft
D.V. @ FROM TO

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FEB 13 2004
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 2828	TO 2830	FROM	TO
FROM 2785	TO 2790	FROM	TO
FROM 2410	TO 2412	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Signature of Cementer or Authorized Representative

South Central Cementers
Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Terry L. Brown
REPRESENTATIVE OF COMPANY

President
TITLE

1/21/04
DATE

PHONE 361 741-3600
A/C NUMBER

SIGNATURE REPRESENTATIVE OF RAILROAD COMMISSION

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? [X] Yes [ ] No

32. How was mud applied? Circulate

33. Mud Weight 9.7 LBS/GAL

34. Total Depth 3000'

Depth of Deepest Fresh Water 1100

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35 Have all abandoned wells on this lease been plugged according to R R C Rules? [X] Yes [ ] No

36 If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well: South Central Cementers, P.O. Box 967, Beeville, TX 78104

Date RRC District Office notified of plugging: 12/10/03

38. Name(s) and address(es) of surface owners of well site

Thomson-Barrow Corp.
5847 San Felipe, Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above? Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42 Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

Cementer. Fill in shaded areas.
Operator· Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E OPERATING	120079	02	~~REFUGIO~~ Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7. Drilling Permit No
Burkes Ridge (Greta)	42- 025 32876	473454

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11. Well No
THOMPSON-BARROW			#17

CASING CEMENTING DATA.		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		02/22/98					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		20		T.N.R.C.C. LETTER DATED		2-18-98	
14 Size of casing (in O D)		8 5/8		Depth		1100'	ft.
15 Top of liner (ft)				13(A) Exception Dated		2-19-98	
16 Setting depth (ft)		378		Surface Casing		320'	ft.
17 Number of centralizers used		6		D.V. @			ft.
18 Hrs waiting on cement before drill-out		18					
1st Slurry	19. API cement used No of sacks ▶	235					
	Class ▶	A					
	Additives ▶	$CaCl_2$					
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶	282					
	Height (ft) ▶	683					
2nd	Volume (cu ft) ▶						
	Height (ft) ▶						
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶	282					
	Height (ft) ▶	683					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25 Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27 Slurry volume pumped (cu. ft.)								
28 Calculated top of plug (ft.)								
29 Measured top of plug, if tagged (ft.)								
30 Slurry wt. (lbs/gal)								
31. Type cement								

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Russell L. Tremaine-Service Suprv. — Name and title of cementer's representative
BJ Services Company — Cementing Company
Russell L. Tremaine — Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
512-575-6446 — Tel., Area Code Number
02/22/98 — Date: mo. day yr

OPERATOR'S CERTIFICATE. I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge This certification covers all well data

Terry Boening — Typed or printed name of operator's representative
President — Title
Terry Boening — Signature

13333 S.W. Frwy., Suite 105 — Address
Sugar Land, TX 77478 — City, State, Zip Code
281/265-6500 — Tel: Area Code Number
4/10/98 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, **in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations

Cementer Fill in shaded areas.
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E OPERATING	120079	02	~~REFUGIO~~ Bee
5 Field Name (Wildcat or exactly as shown on RRC records)	**6 API No**	**7 Drilling Permit No**	
Burkes Ridge (Greta)	42- 025 32876	473454	
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
THOMPSON-BARROW			#6-17

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date				02/26/98			
13 •Drilled hole size				7 7/8			
•Est % wash or hole enlargement				15			
14 Size of casing (in O D)				4 1/2			
15 Top of liner (ft)							
16 Setting depth (ft)				2974			
17 Number of centralizers used				7			
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used. No of sacks ▶			430			
	Class ▶			A			
	Additives ▶			Poz,Gel,Salt,CelloSeal			
2nd Slurry	No. of sacks ▶			215			
	Class ▶			A			
	Additives ▶			KCL,FL25			
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped. Volume (cu ft) ▶			959			
	Height (ft) ▶			4210			
2nd	Volume (cu ft) ▶			258			
	Height (ft.) ▶			1133			
3rd	Volume (cu ft.) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶			1217			
	Height (ft) ▶			5343			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26 Sacks of cement used (each plug)								
27 Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30 Slurry wt. (lbs/gal)								
31 Type cement								

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Dennis R.Duderstadt-Service Suprv. — Name and title of cementer's representative
BJ Services Company — Cementing Company
Denis R Duderstadt — Signature

411 Hartman Road — Address
Victoria,TX 77905 — City, State, Zip Code
512-575-6446 — Tel.: Area Code Number
02/26/98 — Date: mo. day yr.

OPERATOR'S CERTIFICATE. I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data

Terry Boening — Typed or printed name of operator's representative
President — Title
Terry Boening — Signature

13333 S.W. Frwy., Ste. 105 Sugar Land, Texas 77478 — Address, City, State, Zip Code
281/265-6500 — Tel.: Area Code Number
4/10/98 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following.

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- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, **in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar All centralizers must meet API specifications

E **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Type or print only

Form G-1
Rev. 4/1/83

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

API No. 42- 025 32876

7. RRC District No. 2

8. RRC Gas ID No. 168466

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (Greta)

2. LEASE NAME: THOMSON-BARROW CORP

9. Well No. 17

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E OPERATING, INC.

RRC Operator No.

10. County of well site: Bee

4. ADDRESS: 13333 S.W. Frwy., Suite 105, Sugar Land, TX 77478

11. Purpose of filing
- Initial Potential [*]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): John Roache A-60

5b. Distance and direction to nearest town in this county.: 8.9 miles NE from Skidmore

6 If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13. Pipe Line Connection: NGPL

14. Completion or recompletion date: 3/27/98

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16. Type of Electric or other Log Run.: Induction

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Section I — GAS MEASUREMENT DATA

Date of Test: 3/27/98

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 35 MCF

Run No	Line Size	Orif. or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		9/64	0.444	570		80.0	0.9813	1.0351	1.0382	267
2		8/64	0.347	615		80.0	0.9813	1.0351	1.0413	226
3		7/64	0.287	665		80.0	0.9813	1.0351	1.0446	203
4		6/64	0.203	715		80.0	0.9813	1.0351	1.0480	155

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix} =	Avg. Shut-in Temp	Bottom Hole Temp.
0.560			0.560	104 °F	132 °F @ 2829 (Depth)

$D_{eff}^{8/3}$ = 6.307

$\sqrt{T_f}$ = $\sqrt{526.000}$ = 22.935

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COMPLIANCE
JUL 27 1998

$\sqrt{T}$ = $\sqrt{1584.240}$ = 39.803

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = 307.466

$\frac{\sqrt{GL}}{C}$ = = 0.129

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			1020	75.0	1040				
1	60	9/64	570		325	34.6	1.2	571.0	0.9982
2	60	8/64	615		378	29.3	0.9	615.7	0.9989
3	60	7/64	665		442	26.3	0.7	665.5	0.9992
4	60	6/64	715		511	20.1	0.4	715.3	0.9996

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0527	1.1253	1.0611	1082	1170.7	
1	0.9991	0.0564	1.1321	1.0660	609	370.5	800.2
2	0.9994	0.0564	1.1359	1.0662	656	430.9	739.8
3	0.9996	0.0564	1.1401	1.0665	710	503.8	667.0
4	0.9998	0.0565	1.1443	1.0667	763	582.2	588.5

Return to Records Retention

Angle of Slope
θ 45.00
n 1.0000

Absolute Open Flow
391 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature. Well Tester — Target Well Services, Inc. Name of Company — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

HS

Signature. Operator's representative — President Title — 4/10/98 Date — Tel: 281/265-6500 A/C Number

MAPPING

VALID PERMIT
PRODUCTION ALLOCATION 8mc

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen: 2/18/98 — PERMIT NO. 473454
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
C & E Operating Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 2/21/98 — Completed 3/27/98

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 480 Feet From east Line and 7098 Feet from north Line of the Thomson-Barrow Corp Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 108

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [ ] No

27. Top of Pay: 2828

28. Total Depth: 3000

29. P. B. Depth: 2919

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] Dt. of Letter 2/19/98

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: Price Drilling Co.

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	378	–	235 sx A	12 1/4	Surface	282
4 1/2"	10.5	2974	–	645 sx A	7 7/8	Surface	1217

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	2752'	2752'

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From 2828	To 2830
From	To
From	To
From	To

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
2828-2830	Perforate 4SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	2850'		

REMARKS

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P 5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E OPERATING	120079	02	~~REFUGIO~~ Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Burkes Ridge (Greta)	42- 025 32876	473454

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
THOMPSON-BARROW			#17

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		02/22/98					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		20					
14 Size of casing (in O D)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		378					
17 Number of centralizers used		6					
18 Hrs waiting on cement before drill out		18					
1st Slurry	19 API cement used No of sacks ▶	235					
	Class ▶	A					
	Additives ▶	$CaCl_2$					
2nd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶	282					
	Height (ft) ▶	683					
2nd	Volume (cu ft) ▶						
	Height (ft) ▶						
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶	282					
	Height (ft) ▶	683					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

T.N.R.C.C. LETTER DATED 2-18-98
Depth 1100 ft.
13(A) Exception Dated 2-19-98
Surface Casing 320 ft.
D.V. @ ____ ft.

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MAY 06 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Russell L.Tremaine-Service Suprv. — Name and title of cementer's representative
BJ Services Company — Cementing Company
Russell L. Tremaine — Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
512-575-6446 — Tel.: Area Code Number
02/22/98 — Date: mo. day yr.

OPERATOR'S CERTIFICATE. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry Boening — Typed or printed name of operator's representative
President — Title
Terry Boening — Signature

13333 S.W. Frwy., Suite 105 — Address
Sugar Land, TX 77478 — City, State, Zip Code
281/265-6500 — Tel.: Area Code Number
4/10/98 — Date mo day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT. Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E OPERATING	120079	02	~~REFUGIO~~ Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Burkes Ridge (Greta)	42- 025 32876	473454

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
THOMPSON-BARROW			~~14~~ -17

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date				02/26/98			
13 •Drilled hole size				7 7/8			
•Est % wash or hole enlargement				15			
14 Size of casing (in OD)				4 1/2			
15 Top of liner (ft)							
16 Setting depth (ft)				2974			
17 Number of centralizers used				7			
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used No of sacks ▶			430			
	Class ▶			A			
	Additives ▶			Poz,Gel,Salt,CelloSeal			
2nd Slurry	No of sacks ▶			215			
	Class ▶			A			
	Additives ▶			KCL,FL25			
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶			959			
	Height (ft) ▶			4210			
2nd	Volume (cu ft) ▶			258			
	Height (ft) ▶			1133			
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶			1217			
	Height (ft) ▶			5343			
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

22 Remarks

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SAN ANTONIO, TEXAS

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Dennis R.Duderstadt-Service Suprv. — Name and title of cementer's representative
BJ Services Company — Cementing Company
Dennis R Duderstadt — Signature

411 Hartman Road — Address
Victoria,TX 77905 — City, State, Zip Code
512-575-6446 — Tel.: Area Code Number
02/26/98 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry Boening — Typed or printed name of operator's representative
President — Title
Terry Boening — Signature

13333 S.W. Frwy., Ste. 105 — Address
Sugar Land, Texas 77478 — City, State, Zip Code
281/265-6500 — Tel.: Area Code Number
4/10/98 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Return each W-1 with plat and applicable fee Make a check or money order payable to the State Treasurer of Texas

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office

Read Instructions on Back

expedite

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no at right & explain fully in Remarks)

Enter here, if assigned: API No. 42- 025-32876
Permit No. 473454 SR
Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 17
9. Total Depth: 3100'

2 Address (including city and zip code):
13333 Southwest Frwy
Suite 105
Sugar Land, Texas 77478
953535

10. Location
- Section _____ Block _____ Survey John Roache ~~Grant~~ Abstract No. A- 60
- This well is to be located 8.9 miles in a NE direction from Skidmore, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 480 ft.

12 Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

Granted 2/11/98

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 3100') 4001	3100	467/1200	40	40	No	N/A	O/G	1	1
Burkes Ridge (Greta) 13551120	2800	467/1200	40	40	No	N/A	G		1
Burkes Ridge (2040) 13551850	2040	467/1200	40	40	No	2361	G		2

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit 480' FEL & 7098' FNL
- Survey/Section 480' FEL & 14986' FSD (River)

Code C

If a directional well, show also projected bottom-hole location:
- Lease/Unit
- Survey/Section

23. Is this a pooled unit? Yes [ ] (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening — Terry L. Boening/ President
Signature — Name and title of operator's representative

2/ 13/ 98 — 281/ 265-6500
Date. mo. day yr. Tel Area Code Number

125 App

RRC Use Only

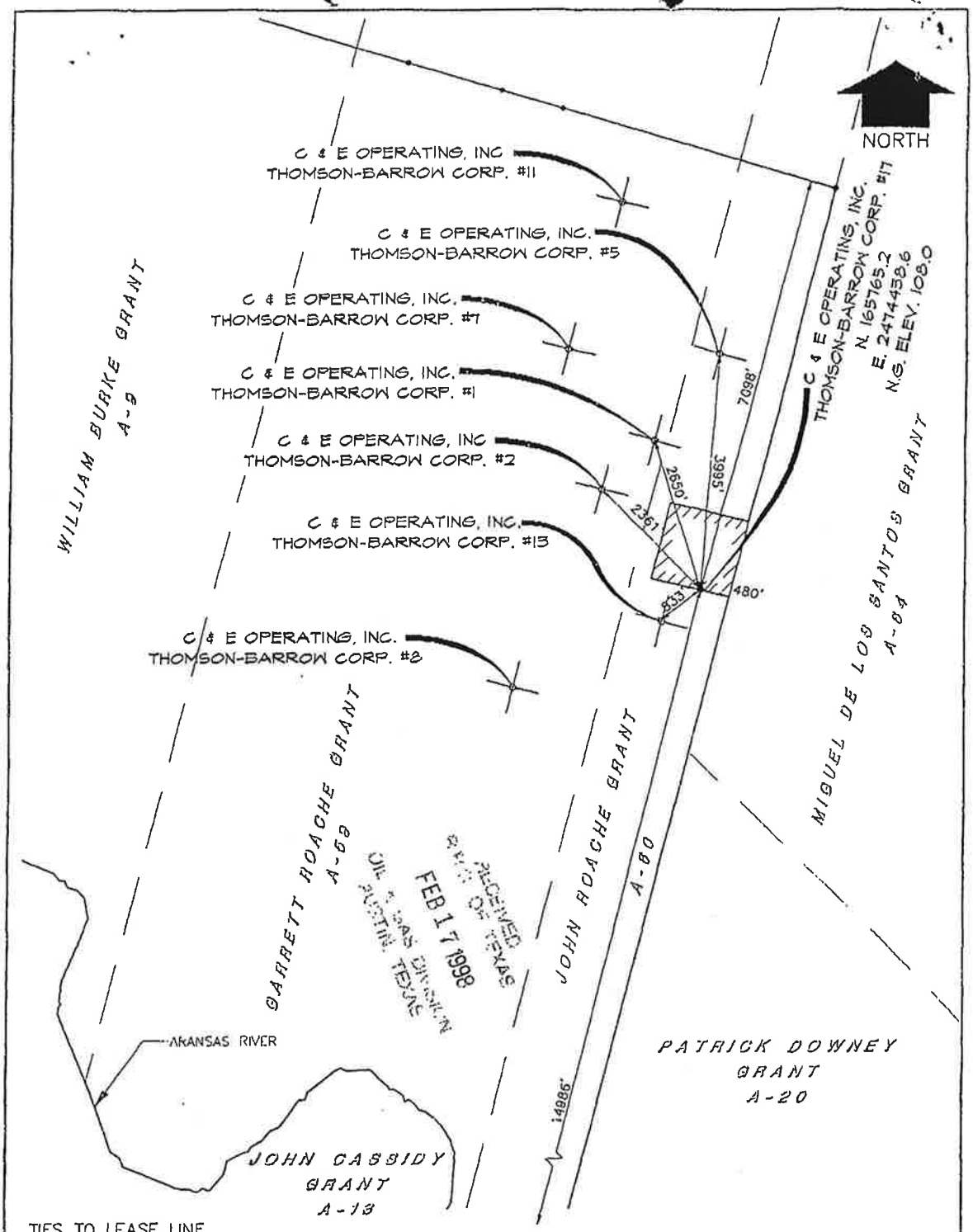
207260 FEB 17 98

50 Exp

473454

175

MAPPING 025-32876



TIES TO LEASE LINE
7098' FNL
480' FEL

TIES TO SURVEY LINES
14986' FSL
480' FEL

DISTANCE FROM NEAREST TOWN
12 MILES W. OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON FEBRUARY 11, 1998 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

2-12-98
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #17
JOHN ROACHE GRANT, A-60
BEE COUNTY, TEXAS

DWG. No. 9873-503
SCALE 1" = 2000'
DATE
DWN BY

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX ● CONSULTING ENGINEERS ● (512)289-1385

MAP ID #67

API# 42-025-32820
GAS WELL
PLUGGED

(67)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev 12/92 (99)

THOMPSON BARROW C-2

API No (if available)	1 RRC District
42- 025 32820	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or ID Number: 163068

2 FIELD NAME (as per RRC records)	3 Lease Name	5 Well Number
Burkhollow (2600 Sand)	Thomson-Barrow Corp. "C"	2
6 OPERATOR	**6a Original Form W-1 filed in name of**	**10 County**
C&E Operating, Inc.		Bee
7 ADDRESS 345 Commerce Green Blvd. Sugar Land, Texas 77478	**6b Any subsequent W-1's filed in name of**	**11 Date Drilling Permit Issued** 3/27/97
8 Location of well, relative to nearest lease boundaries of lease on which this well is located 488.5'	489 feet from NW line and 2673 feet from SW line of the Thomson-Barrow Corp. C	**12 Permit Number** 460425
9a SECTION, BLOCK and SURVEY Miguel De Los Santos A-64	**9b Distance and direction from nearest town in this county** 6.1 miles NE of Papalote	**13 Date Drilling Commenced** 4/1/97

16 Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no 's	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14 Date Drilling Completed
gas	3000					4/4/97
18 If gas, amt of cond on hand at time of plugging						15 Date Well Plugged 6/4/01

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19 Cementing Date	6-4-01	6-4-01	6-4-01	6-4-01				
20 Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½	4½				
21 Depth to Bottom of Tubing or Drill Pipe (ft)	1782	1425	1150	14				
*22 Sacks of Cement Used (each plug)	15	12	12	5				
*23 Slurry Volume Pumped (cu ft)	17.7	14.16	14.16	5.9				
*24 Calculated Top of Plug (ft)	1585	1267	992	3				
25 Measured Top of Plug (if tagged) (ft)								
*26 Slurry Wt #/Gal	15/6	15/6	15/6	15/6				
*27 Type Cement	A	A	A	A				

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RRC OF TEXAS
JUN 19 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

28 CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	414	410	12¼
4½	10.5	2969	2965	7 7/8

29 Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material (Use reverse side of form if more space is needed)

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	2845	TO	2851	FROM		TO	
FROM	2521	TO	2524	FROM		TO	
FROM	1136	TO	1140	FROM		TO	
FROM		TO		FROM		TO	
FROM		TO		FROM		TO	

RECEIVED
CENTRAL RECORDS
SEP 27 2001
AUSTIN, TEXAS

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company Items not so designated shall be completed by operator

Signature of Cementer or Authorized Representative

South Central Cementers
Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Terry L. Bowen
REPRESENTATIVE OF COMPANY

President
TITLE

6/14/01
DATE

PHONE 361 A/C 741-3600 NUMBER

SIGNATURE REPRESENTATIVE OF RAILROAD COMMISSION

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission?	[X] Yes [ ] No	32 How was mud applied?	33. Mud Weight
		Circulate	9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R.		35 Have all abandoned wells on this lease been plugged according to R R C Rules?	[X] Yes [ ] No
3000'	TOP	BOTTOM	36. If No, Explain	
Depth of Deepest Fresh Water 1350				

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well	Date RRC District Office notified of plugging
South Central Cementers, P.O. Box 967, Beeville, Texas 78104	6/3/01

38. Name(s) and address(es) of surface owners of well site

Thomson-Barrow Corp.
5847 San Felipe, Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs: [ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42- 025-32820

7. RRC District No. 02

8. RRC Gas ID No. 163068

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Burkhollow (2600 sand)

2. LEASE NAME: Thomson-Barrow Corp. "C"

9. Well No.: 2

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.

RRC Operator No: 120079

10. County of well site: Bee

4. ADDRESS: 13333 Southwest Freeway, # 105 Sugar Land, Texas 77478

11 Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): Miguel De Los Santos A-64

5b. Distance and direction to nearest town in this county.: 6.1 miles northeast from Papalote

6. If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13. Pipe Line Connection: NGPL RECORD CODIFICATION

14. Completion or recompletion date: 4/26/97 JUL 24 1997

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16. Type of Electric or other Log Run: Induction

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R.R.C. OF TEXAS
MAY 08 1997
SAN ANTONIO GAS DIVISION
TEXAS

Section I — GAS MEASUREMENT DATA

Date of Test: 4/26/97

Gas Measurement Method (Check One): Orifice Meter [X] ▶ Flange Taps [X] Pipe Taps [ ] | Positive Choke [ ] | Orifice Vent Meter [ ] | Pitot Tube [ ] | Critical-flow Prover [ ]

Gas produced during test: ____ MCF

Run No.	Line Size	Orif or Choke Size	24 Hr Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2.067	.625	2470.89	365	75.0	80	.9813	1.0042	1.0271	414
2	2.067	.625	2470.89	365	59.0	80	.9813	1.0042	1.0271	367
3	2.067	.625	2470.89	365	38.0	80	.9813	1.0042	1.0271	295
4	2.067	.625	2470.89	365	22.0	80	.9813	1.0042	1.0271	224

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.595	DRY Deg. API	DRY CF/Bbl	G_{mix} = .595	100 °F	124°F @ 2523 (Depth)

$D_{eff}^{8/3}$ = 6.307 $\quad \sqrt{T_f} = \sqrt{566} = 23.79 \quad \sqrt{GL} = \sqrt{1501.19} = 38.75$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{(1118)(6.307)}{23.79} = 296 \quad \frac{\sqrt{GL}}{C} = \frac{38.75}{296} = .1309$

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			1075	75	1156				
1	60	10/64	775	90	601	54.2	2.9	777	.9974
2	60	9/64	835	88	697	48.0	2.3	836	.9988
3	60	8/64	855	87	731	38.6	1.5	856	.9988
4	60	7/64	865	86	748	29.3	.9	865	1.0000

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		.0503	1.1488	1.0595	1139	1297	
1	.9987	.0497	1.1231	1.0574	822	676	621
2	.9994	.0497	1.1268	1.0576	884	781	516
3	.9994	.0497	1.1281	1.0577	905	819	478
4	1.0000	.0497	1.1287	1.0577	915	837	460

Angle of Slope
θ ....45.0.....
n ....1.0000....

Absolute Open Flow
.....850..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature: Well Tester — TARGET WELL SERVICES, INC. — Name of Company — RRC Representative

Return to Records Retention

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: Operator's representative — Terry L. Boening — Title: President — Date: 4/30/97 — Tel: A/C 281/ 265-6500 Number

HS 025-32820 MAPPING

VALID PERMIT
PRODUCTION ALLOCATION
MAY 15 1997 SMU

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 3/27/97 — PERMIT NO. 460425
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 1000

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 4/1/97 — Completed 4/26/97

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 489 Feet From NW Line and 2673 Feet from SW Line of the Thomson-Barrow Corp. "C" Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 108'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [XX] No

27. Top of Pay	28. Total Depth	29. P. B. Depth	30. Surface Casing Determined by:
2531	3000'	2800'	Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X]

Dt. of Letter 3/27/97

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	415	-	235sx A	12 1/4	surface	401
4 1/2"	10.5	2629	1707	560sx H	7 7/8	surface	3291

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	2446	2446

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	2531	To	2534
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
2845-51'	Perforate 8 SPF
2800'	CIBP + cmt.

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Catahoula	2860		

REMARKS

Cementer Fill in shaded areas
Operator Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating , Inc.	120079	02	Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Burkhollow (2600 Sand)	42- 025-32820	460425

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
Thompson-Barrow Corp. "C"		163068	#C-2

CASING CEMENTING DATA.		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		04/02/97					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		25					
14 Size of casing (in O D)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		415					
17 Number of centralizers used		5					
18 Hrs waiting on cement before drill-out		10					
1st Slurry	19 API cement used: No of sacks ▶	125					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt,FP					
2nd Slurry	No of sacks ▶	110					
	Class ▶	A					
	Additives ▶	$CaCl_2$,FP					
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶	261					
	Height (ft) ▶	632					
2nd	Volume (cu ft) ▶	140					
	Height (ft) ▶	339					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶	401					
	Height (ft) ▶	971					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

T.N.R.C.C. LETTER DATED 3-27-97
Depth 1350 ft.
13(A) Exception Dated 3-27-97
400' ft.
Surface Casing ft.
D.V. @ ft.

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R.R.C. OF TEXAS
MAY 08 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)							-	
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Bill Yeschke, Service Supervisor	BJ Services Company	Bill Yeschke
Name and title of cementer's representative	Cementing Company	Signature

411-A Hartman Road	Victoria, TX 77905	512-575-6446	04/02/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening	President	Terry L. Boening
Typed or printed name of operator's representative	Title	Signature

13333 Southwest Frwy, #105	Sugar Land	TX	77478	281/ 265-6500	4	30	97
Address	City,	State,	Zip Code	Tel.: Area Code Number	Date: mo.	day	yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Burkhollow (2600 Sand)	42- 025- 32820	460425

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
Thompson Barrow Corp. C		163068	C-2

CASING CEMENTING DATA		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date						4-15-97	4-15-97
13 •Drilled hole size						7 7/8	7 7/8
•Est % wash or hole enlargement						15	15
14 Size of casing (in O D)						4 1/2	4 1/2
15 Top of liner (ft)							
16 Setting depth (ft)						1707	5494
17 Number of centralizers used						7	5
18 Hrs waiting on cement before drill out						--	--
1st Slurry	19 API cement used No of sacks ▶					214	75
	Class ▶					A	H
	Additives ▶					Below	Below
2nd Slurry	No of sacks ▶					145	350
	Class ▶					A	H
	Additives ▶						Below
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶					447	157
	Height (ft) ▶					1963	688
2nd	Volume (cu ft) ▶					171	420
	Height (ft) ▶					751	1843
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶					2714	577
	Height (ft) ▶					618	2531
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?						Yes	No

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MAY 08 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks
Tool: Poz;Gel;Salt
Shoe #1: Poz;Gel;Salt;Cello Flake;R-3
Shoe #2: Salt;FL-25;ASA-301;R-3

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in)								
25 Depth to bottom of tubing or drill pipe (ft)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Ron L. Schul Service Supervisor — Name and title of cementer's representative
B. J. Services — Cementing Company
Ron L Schul — Signature

411-A Hartman Rd. — Address
Victoria, Tx. 77905 — City, State, Zip Code
512-575-6446 — Tel.: Area Code Number
04-15-97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE. I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Terry L. Boening — Signature

13333 Southwest Freeway, #105 — Address
Sugar Land, Texas 77478 — City, State, Zip Code
281/ 265-6500 — Tel.: Area Code Number
5/5/ 97 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT. Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

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E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Form W-1
Rev 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[x] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32820 Permit No. 460425 ALLOW
Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc. W 3-27-97
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478 953535
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. C
7. RRC Lease/ID No.:
8. Well No.: 2
9. Total Depth: 4100'

10. Location
• Section ____ Block ____ Survey Miguel De Los Santos ~~Grant~~ Abstract No. A- 64
• This well is to be located 6.1 miles in a northeast direction from Papalote which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 489 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 1000 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 4100') 4001	4100	467/1200	40	40	NO	1522	O/G	3	3
13600500 (2600 SAND) Burkhollow ~~(2600)~~	2600	467/1200	40	40	NO	1522	G		3
Burkes Ridge (2040) 13551850	2040	467/1200	40	40	NO	1522	G		3

RECEIVED R.R.C. OF TEXAS MAR 27 1997 AUSTIN, TEXAS

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 489' FNWL & 2673' FSWL
• Survey/Section ~~489' FNWL & 4129' FSWL~~ ~~6000' FNL~~ Rec'd

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? ~~477510 NWL~~ 300' FSWL
Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [x]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
Yes [ ] ▶ (Attach Form W-1A) No [x]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [x]
If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [x] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening Terry L. Boening President
Signature Name and title of operator's representative

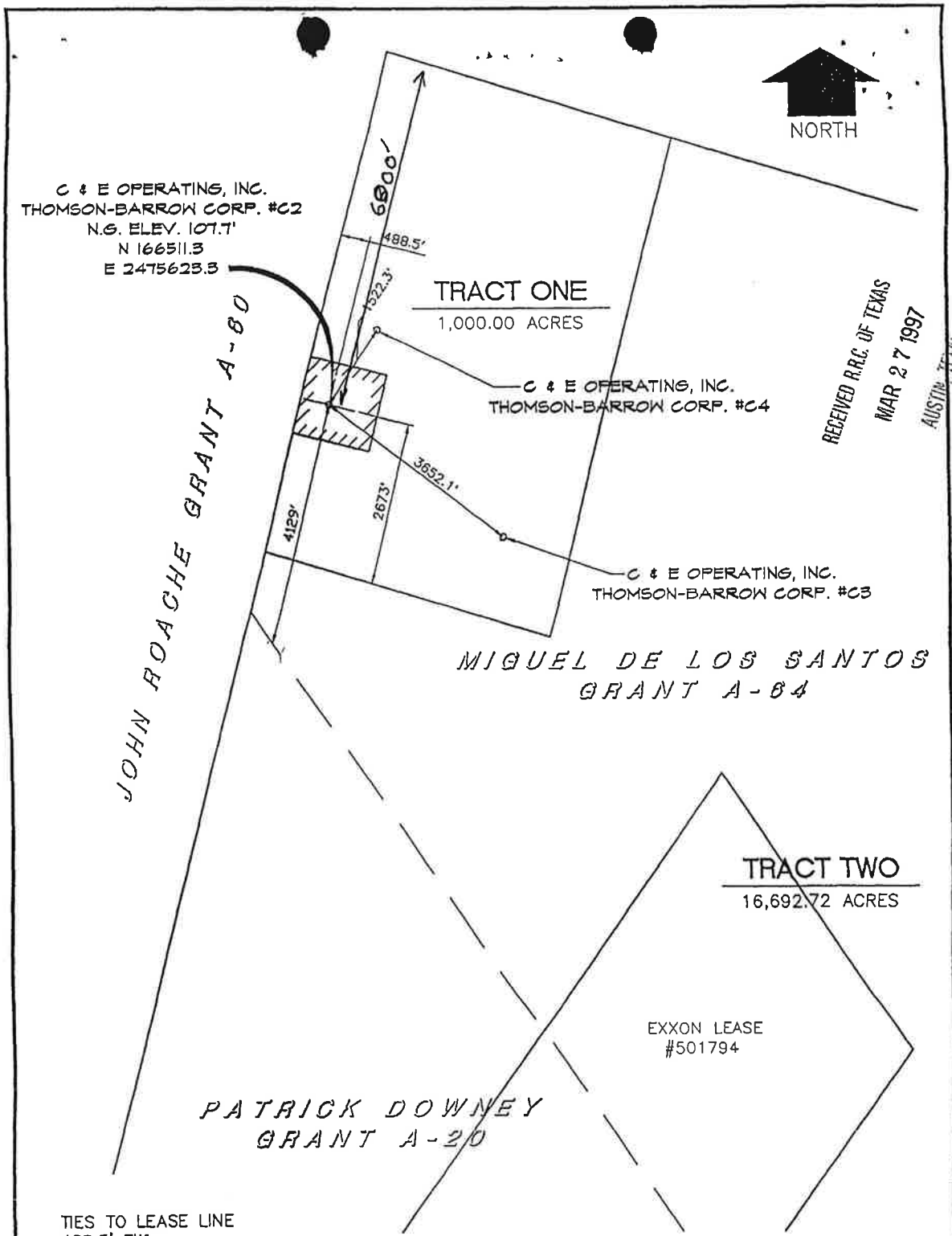
Date: 3 mo. 26 day 97 yr. Tel.: 281 Area Code 265-6500 Number

Rec# 35878

• RRC Use Only •
209470 MAR 2797

460425

025-32820



RECEIVED R.R.C. OF TEXAS
MAR 27 1997
AUSTIN, TEXAS

TIES TO LEASE LINE
488.5' FWL
2673' FSL

TIES TO SURVEY LINES
488.5' FWL
4129' FSL

DISTANCE FROM NEAREST TOWN
12 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MARCH 21, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

3-26-97
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C2
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

DWG. No. : 9773-502
SCALE : 1" = 2000'
DATE : 03/97
DWN BY : JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

MAP ID #68

API# 42-025-01564
DRY HOLE

MAP ID #68

API# 42-025-01564
DRY HOLE

Form 1

RAILROAD COMMISSION OF TEXAS—OIL AND GAS DIVISION
Austin, Texas

IMPORTANT NOTICE: This is the first record the Railroad Commission has of any well. It is made the basis of all subsequent correspondence. Hence it must be accurate.

NOTICE OF INTENTION TO DRILL, [redacted]

(To comply with Rules of the Railroad Commission of Texas governing Oil and Gas Conservation in Texas.)

DESCRIPTION OF PROPERTY

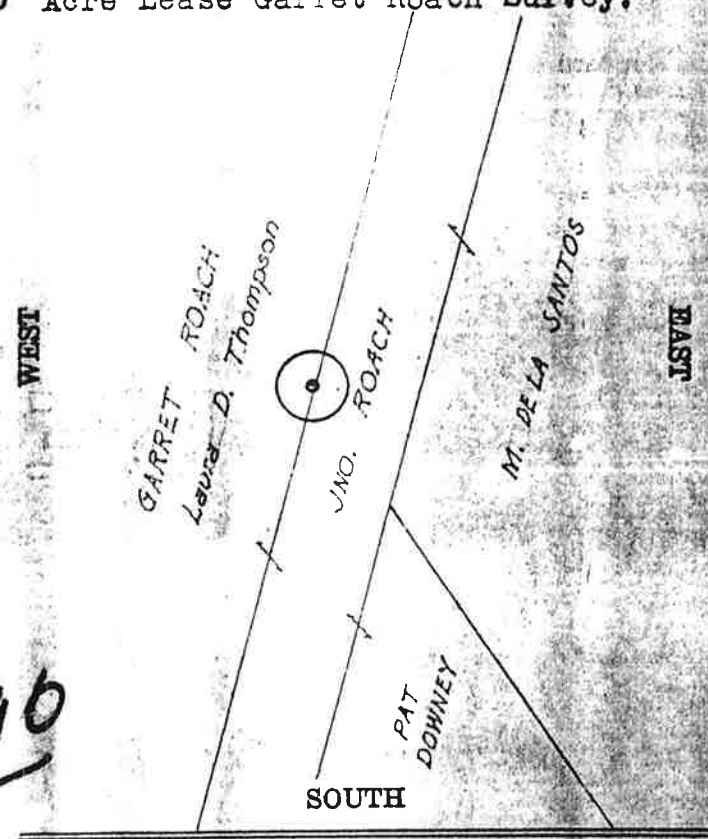
In order that the well covered by this notice may be definitely and accurately located on maps in the office of the commission, draw in the space below, in ink a sketch of the lease or block and lot, giving name and number, and indicate thereon the exact location of the well. Also show the distance, in feet, of the well from the two nearest boundaries of the lease and from the nearest well. Give names of the adjoining lease or property owners.

Scale: 400 feet to 1 inch, if less than 2 acres, 40 feet to inch.

Use back hereof for sketch if necessary.

NORTH

6381 feet from the North line and 15094' from the west line of 25597 Acre Lease Garret Roach Survey.



This notice must be delivered to Deputy Supervisor of your district before drilling deepening, or plugging. He will forward to the Railroad Commission, Austin, Texas.

Date 8-27-31.

Name of company or operator

Name Humble Oil & Refining Company,

Address Box #1084, San Antonio, Texas.

Name of farm or lease

Name Laura D. Thompson

Located in Bee County

Sec. No. Block No.

Survey Garret Roach

Number of acres 25597.8 Well No. 1

Rotary or Cable Tools Rotary

Date work will start 8-28-31

Depth to which you propose to drill 6500 feet

Date you wish to plug Well No.

(You must also give notice to adjacent lessees.)

If lease purchased with one or more wells drilled, from whom purchased?

Name

Address

RECEIVED
AUG 29 1931
Oil & Gas Division

590

Deliver to Deputy Supervisor in charge of district in which well is located.

Rule 37. No well for oil or gas shall hereafter be commenced nearer than three hundred (300) feet to any other completed or drilling well on the same or adjacent tract or farm; and no well shall be drilled nearer than one hundred and fifty (150) feet to any property line; provided, that the Commission, in order to prevent waste or to protect vested rights, will grant exceptions permitting drilling within shorter distances than as above prescribed, upon application filed fully stating the facts, notice thereof having first been given to all adjacent lessees affected thereby. Rule 37 shall not for the present be enforced within any proven oil field which is on a proven salt dome structure.

Form 1015b—G344-331-30M

025-01511

Form No. 1

WELL RECORD

File with Deputy Supervisor of District in Which Well is Located

Operator Humble Oil & Refining Company Address P.O.Box 1084, San Antonio, Texas.

County Bee Survey Garret Roach Block No. Sec. No.

Lessor Laura D. Thompson Well No. 1 Elevation

Commenced 8/31/31 (Building Rig) 9/14/31 (Rigging Up) 9/24/31 (Drilling)

Completed 7/5/32 (Date) Pay From To Dry Hole. (How Producing)

Correspondence regarding this well should be sent to: Name Address

SIZE	PUT IN WELL Ft.	PUT IN WELL In.	PULLED OUT Ft.	PULLED OUT In.	LEFT IN WELL Ft.	LEFT IN WELL In.	PACKERS AND SHOES
20	182	0			182	0	
13-3/8	1310	0			1310	0	

Initial Production of Gas—Volume Pressure

Initial Production of Oil: Barrels Dry Hole.

Remarks:

DESCRIPTION OF PROPERTY:

NORTH

6434 Feet from North Line
17184 Feet From West line
of 25597.8 Acre Tract
Garret Roach Survey.

Above measured as follows:

S: 72° E. 17184 feet along north property line, thence S. 18° W. 6454 feet from the Northwest corner of Thompson Tract.

WEST

EAST

GENERAL REMARKS:

SOUTH

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

(Form 1019bc—M172-J20-5M)
No. A—1122—D2572J
WEP—TPO—SWO—RES (J)

FORMATION RECORD

SHOW ALL FORMATIONS, ESPECIALLY ALL SANDS AND CHARACTER AND CONTENTS THEREOF

FORMATIONS	TOP	BOTTOM	REMARKS
"FORMATION RECORD ATTACHED HERETO".			

Method of shutting off water _____ Is water completely shut off? _____

Amount of water with oil Dry Hole. per cent _____

I, D. B. Harris

being first duly sworn, on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

D B Harris
Representative of Company.

Subscribed and sworn to before me this 1 day of September, 1932

C. E. L. Marmion
Notary Public.

Bexar County, Texas.

FORMATION RECORD ON LAURA L THOMPSON
WELL NO. 1, SOUTHERN BEE COUNTY

Surface Clay	0	50	
Caliche	50	85	
Sand & Gravel	85	120	
Shale & Lime	120	150	
Sand	150	150	
Caliche	150	170	
Sand	170	290	
Sticky Shale	290	326	
Sand	326	386	
Sticky Shale	386	506	
Shale & Lime	506	554	
Sand & Shale	554	565	
Sticky Shale	565	614	
Sand & Boulders	614	689	
Sandy Shale	689	712	
Sand	712	769	
Sticky Shale	769	873	
Sand & Boulders	873	955	
Sandy Shale & Lime	955	1080	
Sticky Shale	1080	1075	
Sand	1075	1125	
Sticky Shale	1125	1197	
Sand	1197	1207	
Sand & Boulders	1207	1226	
Shale	1226	1263	
Sand	1263	1286	
Shale & Lime	1286	1328	
Sand, Hd. streaks	1328	1351	
Shale & Lime	1351	1732	
Sand	1732	1748	
Shale & Lime	1748	1837	
Sand	1837	1855	
Shale & Lime	1855	2000	
Shale	2000	2079	
Sand	2079	2101	
Shale & Lime	2101	2106	
Sand & Shale	2106	2190	
Sticky Shale	2190	2236	
Sand & Shale	2236	2285	
Sticky Shale	2285	2322	
Sandy Shale	2322	2339	
Sand	2339	2345	
Sticky Shale	2345	2350	
Sand	2350	2379	
Sticky Shale	2379	2415	
Brittle Shale	2415	2451	
Shale	2451	2467	
Sand & Lime	2467	2473	
Sand	2473	2478	
Shale	2478	2524	
Sandy Shale	2524	2545	
Shale & Lime	2545	2922	
Sandy Shale	2922	2932	
Sand	2932	3135	
Shale, Sandy	3135	3140	
Sand	3140	3155	
Brittle Shale	3155	3159	
Sandy Shale	3159	3178	
Shale & Lime	3178	3191	
Sand, Soft	3191	3211	
Sand & Shell	3211	3216	
Sand	3216	3230	
Sand & Shell	3230	3250	
Sand	3250	3285	
Shale & Lime	3285	3291	
Sticky Shale	3291	3305	
Sandy Shale	3305	3309	
Sand	3309	3559	
Sandy Shale	3559	3569	
Sand	3569	3573	
Sticky Shale	3573	3581	
Sandy Shale	3581	3592	
Brittle Shale	3592	3622	
Hard Sand	3622	3624	No Show
Sand	3624	3645	No Show
Sandy Shale	3645	3697	
Soft Sand	3697	3720	" "
Shale & Lime	3720	3797	
Brittle Shale	3797	3816	
Sticky Shale	3816	3834	
Brittle Shale	3834	3878	
Blue Shale	3878	3890	
Sandy Shale & Lime	3890	3958	
Shale	3958	4051	
Sandy Shale & Lime	4051	4076	
Hard Shale	4076	4100	
Shale & Lime	4100	4146	
Hard Shale	4146	4151	
Shale & Lime	4151	4171	
Sticky Shale, Lime	4171	4178	
Shale & Lime	4178	4307	
Sandy Shale & Lime	4307	4354	
Hard Sand	4354	4362	No Show
Sandy Shale & Lime	4362	4397	
Hard Sticky Shale	4397	4419	
Sandy Shale	4419	4425	
Brittle Shale	4425	4439	
Shale & Sand	4439	4481	
Sticky Shale	4481	4486	
Shale & Lime	4486	4588	
Sandy Shale	4588	4617	
Sandy Shale & Lime	4617	4625	
Sticky Shale	4625	4638	
Hard Shale & Lime	4638	4685	
No. Show Hard Shale	4685	4707	
Shale & Lime	4707	4805	
Hard Shale	4805	4807	
Sticky Shale	4807	4823	
Brittle Shale	4823	4840	
Sandy Shale	4840	4845	
Shale & Lime	4845	4933	
No. Show Sandy Shale	4933	4993	
Shale & Lime	4993	5010	
Water Sandy Shale	5010	5017	
Sticky Shale	5017	5025	
Sandy Shale	5025	5035	
Sticky Shale	5035	5050	
Shale & Lime	5050	5055	
Water Hard Shale	5055	5080	
Shale & Lime	5080	5100	
Sticky Shale & Lime	5100	5154	
Shale & Lime	5154	5173	
Sandy Shale	5173	5185	
Odor Hard Shale	5185	5225	
Hard Sand	5225	5227	No Show
No Show Shale & Lime	5227	5267	
Hard Shale	5267	5307	
Sand & Shale	5307	5328	Slight
Shale & Lime	5328	5338	Show
No Show Sandy Shale	5338	5348	
Sand	5348	5373	Dry
No Show Sand & Shale	5373	5385	
Soft Sand	5385	5439	No Show
Water Sand & Shell	5439	5447	
Sandy Shale	5447	5461	
Sand	5461	5552	No Show
Sand & Shell	5552	5560	
No Show Sand	5560	5567	" "
Sand & Shale	5567	5603	
Water Sandy Shale	5603	5655	

Sand & Shale	5653	5661	
Shale & Shells	5661	5676	
Sandy Shale, Shell	5676	5698	Odor
Shale &nShell	5698	5712	
Sticky Shale	5712	5718	
Sandy Shale,Shell	5718	5722	Gas
Hd. Shale & Shell	5722	5725	
Shale	5725	5788	
Sandy Shale,Shell	5788	5797	
Shale & Shell	5797	5804	
Sand	5804	5808	Show Oil
Sand & Shale	5808	5818	
Sandy Shale	5818	5823	Odor "
Shale	5823	5843	
Sandy Shale	5843	5848	
Shale	5848	5853	
Sandy Shale	5853	5863	
Sandy Shale	5863	5870	
Sand	5870	5873	Odor
Sand & Shale	5873	5900	
Shale	5900	5941	
Sand & Shale	5941	5944	
Shale	5944	5956	
Sand	5956	5957	No Show
Shale	5957	5972	
Sandy Shale	5972	5993	
Shale	5993	6003	
Sticky Shale	6003	6008	
Shale	6008	6011	
Shale & Sand	6011	6018	Show Gas
Shale & Sand	6018	6023	No Show
Shale	6023	6160	TOTAL DEPTH.

NOTE: Twisted off 4-1/8" Core head and inter barrell at 5722 feet. Well showing gas. Failed to fish out core head and barrel. Cemented bottom of open hole from 5725 to 5384 with 200 sacks of cement to shut off gas. New hole started at 5384 and carried to total depth.

FORM 4

RAILROAD COMMISSION OF TEXAS

Rule 10. Plugging Dry and Abandoned Wells.—(a) All abandoned or dry wells shall immediately be plugged according to the following rules:

(b) Manner of Plugging.—All dry or abandoned wells must be plugged by confining all oil, gas and water in the strata in which they occur by the use of mud laden fluid filling well to the top as directed by the Commission or by some other method approved by the Commission. In cable drilling, in addition to mud laden fluid, cement and plugs may be used when so directed.

(c) Notice of Intention to Plug.—Before plugging dry and abandoned wells, notice shall be given to the Railroad Commission of Texas or its conservation agent in the field, and to all available adjoining lease and property owners, and representatives of such lease and property owners may, in addition to the oil and gas conservation agent of the Commission, be present to witness the plugging of these wells if they so desire, but plugging shall not be delayed because of inability to deliver notices to adjoining lease or property owners. (Rule 10 amended November 12, 1931.)

Rule 11. Log and Plugging Record to be Filed with Commission.—The owner or operator shall, upon the completion of any well, file with the Railroad Commission of Texas a complete record or log of the same, duly signed and sworn to, upon blanks to be furnished by the Commission upon application; and upon plugging any well for any cause whatsoever, a complete record of the plugging thereof shall be made and duly verified on blanks to be furnished by the Commission.

PLUGGING RECORD

Company Humble Oil & Refining Company Address Box 1084 San Antonio, Texas.

Sec. No. ____ Block No. ____ Survey Garret Roach County Bee

Well No. 1 Name of Lease Laura D. Thompson No. of Acres 25597.8

Date well was plugged 7-5-32

Character of Well (Whether it was Oil or Gas or Dry) Dry

Total depth 6160 feet. Top of each producing sand 5718 Gas feet

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was the mud applied? Slush Pump.

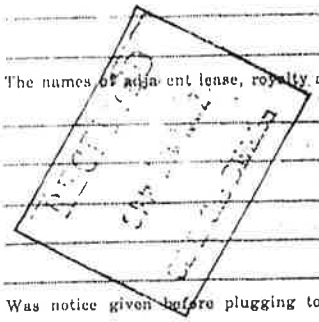
Were plugs used? No. If so, show all shoulders left for casing, depth of each string of casing cut and kind of plugs used, and depths placed. Also amount of cement and rock.

Was well shot? No.

show depth found and thickness of all water, oil and gas formations 2350-2379 Water 2473-2478 Water 3250-3285 Water 3569-3573 Water 5718-5722 Gas

The names of adjacent lease, royalty and land-owners with their addresses in each instance are as follows:

Wildcat



Was notice given before plugging to available adjacent lease owners as required by subdivision (c) of Rule 10?

I, D. B. Harris, being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Name [signature] Title Div. Supt.
Representative of Company

Subscribed and sworn to before me this 7th day of September, 1932

[signature]
Notary Public Bexar County, Texas

Correspondence regarding this well should be addressed to:

Name D. B. Harris

Address Box 1084, San Antonio, Texas.

(Form 1178—G369-431-5M)
No. A—1123—D24090
WEP—TFG—SWO—RES (2)

(OVER)

CASING, LINER, SCREEN AND TUBING RECORD

BEFORE ABANDONMENT	RECOVERED	LEFT IN HOLE
182 Ft. 20" 90# Casing	None	182 Ft. 20" 90# Casing
1310 Ft. 13-3/8" 61# Casing	None	1310 Ft. 13-3/8" 61# Casing

Material lost in hole 4-1/8" Reed Wire Line Core head and inter barrel.

REMARKS:

MAP ID #69

API# 42-025-02480
OIL WELL
PLUGGED

02480

0 0 0 0 7 3 0 8 9 8

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (if available)

1. RRC District: 2-1

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease No.: 37602

2. NAMED NAME (as per RRC Records): LAURA THOMSON (5600 #4 SD)
OPERATOR: EXXON CORPORATION

3. Lease Name: LAURA T. BARROW "B"

5. Well Number: 12

6a. Original Form W-1 Filed in Name of

7. ADDRESS: WILSON TOWER
CORPUS CHRISTI, TX. 78476

6b. Any Subsequent W-1's Filed in Name of

10. County: BEE

11. Date Drilling Permit Issued: 7-24-63

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 4290 Feet From NW Line and 4400 Feet From NE Line of the LAURA T. BARROW "B" Lease

12. Permit Number: —

9a. SECTION, BLOCK, AND SURVEY: N. DE LOS SANTOS (A-64)

9b. Distance and Direction From Nearest Town in this County: 8 MILES NE OF PORTAGE

13. Date Drilling Commenced: 7-26-63

14a. Type Well (Oil, Gas, Dry): GAS

Total Depth: 5600

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #

Oil - G Gas-G

WELL #

14. Date Drilling Completed: 8-30-63

18. If Gas, Amt. of Cond. on Hand at time of Plugging

15. Date Well Plugged: 6-5-79

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	6-5-79							
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5497'							
*22. Sacks of Cement Used (each plug)	160							
*23. Slurry Volume Pumped (cu. ft.)	188.8							
*24. Calculated Top of Plug (ft.)	Surface							
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	14.5# per gallon							
*27. Type Cement	Class "H"							

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
7"		500.63	500.63	
2 7/8		5582.88	5582.88	

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☐ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated. Such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

JUN 26 1979

Lorraine B. Stewart
Signature of Cementer or Authorized Representative

Spartan Well Service, Inc.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R F Presson
REPRESENTATIVE OF COMPANY

G. F. PRESSON
PRORATION SPECIALIST
TITLE

JUN 21 1979
DATE

Phone 512-884-4571
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

Plug approved by Mr. Arnold Crisp. R.R.C.
San Antonio District 2

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission? [X] Yes [ ] No

32. How was Mud Applied? PUMPED

33. Mud Weight 9.5 LBS/GAL

34. Total Depth 2600

Depth of Deepest Fresh Water 1600

Other Fresh Water Zones by T.D.W.R. TOP / BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: SPARTAN WELL SERV., P.O. Box 1498, CORPUS CHRISTI, TX 78403

Date RRC District Office notified of plugging: 5-11-79

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

CARRI OIL CO., C/O R.C. HARRIS, 1810 BK & TR TOWER, CORPUS CHRISTI, TX 78477

BLAIR FREELAND, 902 BK & TR TOWER, CORPUS CHRISTI, TX 78477

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS: Casing Recovered: None

Tubing Recovered: None

Plug displaced with pump truck

MAP ID #70

API# 42-025-01264
OIL WELL
PLUGGED

01264

Plugging Record 20007 RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form W-3
Rev 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id. Number: 02907

2 FIELD NAME (as per RRC Records): LAURA THOMSON (5600 Nevill)

3 LEASE NAME: LAURA T. BARRON 'B'

5 Well Number: 13

6 OPERATOR: EXXON CORPORATION

10 County: BEE

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 5-7-63

8 SURFACE LOCATION: 5250 FEET FROM E OF N LINE, AND 3400 FEET FROM SW OF NE LINE

12 Date Drilling Commenced: 8-11-63

9 SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS (A-64)

13 Date Drilling Completed: 5-21-63

15 Type of Well (Oil, Gas, Dry)*: OIL

16 Type of Completion (Single, Dual, Etc.): SINGLE

17 Total Depth: 5650

14 Date Well Plugged: 5-16-67

18 FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19 Manner of Placement

PLUG #1	5	SACKS	TOP	5403	BOTTOM	5553	TYPE CLASS H
PLUG #2	15	SACKS	TOP	27	BOTTOM	567	TYPE CLASS H
PLUG #3		SACKS	TOP		BOTTOM		TYPE
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23 Depth of Deepest Fresh Water: 1600 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25 If NO, Explain:

26 Name and Address of Party Plugging Well: CULBERSON WELL SERVICE INC., BOX 2266, VICTORIA, TEXAS 77901

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
* 7 5/8"	506.22		502.22	
# 2 7/8"	5619.66		5615.66	

* 7 5/8" & 2 7/8" CASING CEMENTED TO SURFACE.

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS & COMPANY, BOX 1490, ALICE, TEXAS 78332

29 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — PRORATION SPECIALIST — 9-31-73

REPRESENTATIVE OF COMPANY — TITLE — DATE

RECEIVED R.R.C. OF TEXAS SEP 4 1973 S.A.D.

Signature: REPRESENTATIVE OF RAILROAD COMMISSION — SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS CUT CASING OFF 4' BELOW GROUND LEVEL AND CAPPED WELL.

0 0 0 0 7 3 0 9 2 2

RAILROAD COMMISSION OF TEXAS

Form W-15
(Rev. 11-1-69)

OIL AND GAS DIVISION

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson /5600 No. 41	*2. RRC District 2
*3. Operator Exxon Corporation	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Laura Barron B 02907	*6. Well Number B-13
*7. Location (Section, Block, and Survey) M. de Los Santos (H-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Data						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of collar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/16/73	8/16/73				
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5553'	567'				
22. Sacks of Cement Used (each plug)	5	15				
23. Slurry Volume Pumped (cu. ft.)	5.9	17.7				
24. Calculated Top of Plug (ft.)	5403'	27'				
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. OF TEXAS
SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

02907

26. Remarks:
Circ well w 9.5# mud.
Cut off 4' below grd level, capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J W Culberson Jr
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr., Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 57 8-3503
Area Code

August 22, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*Street Address or P.O. Box

*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-31-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

MAP ID #71

API# 42-025-02447
OIL WELL
PLUGGED

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (if available) 42-025-02447

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
4. RRC Lease or Id. Number: 02907
2. FIELD NAME (as per RRC Records): Laura Thomson (5600 #4 Sand)
3. Lease Name: Laura T Barrow "B"
5. Well Number: 19
6. OPERATOR: Mueller Engineering, Corp.
6a. Original Form W-1 Filed in Name of: Humble Oil & Refining Company
10. County: Bee
7. ADDRESS: 1010 First City Towwer II, Corpus Christi, Texas 78478
6b. Any Subsequent W-1's Filed in Name of: —
11. Date Drilling Permit Issued: 5/65
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 8239 Feet From NW Line and 9050 Feet From SW Line of the Barrow Lease
12. Permit Number: Unknown
9a. SECTION, BLOCK, AND SURVEY: M. De Los Santos A-64
9b. Distance and Direction From Nearest Town in this County: 11.4 Miles East of Skidmore
13. Date Drilling Commenced: July 1965
16. Type Well (Oil, Gas, Dry): Oil
Total Depth: 5600
17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s — GAS ID or OIL LEASE #: — Oil-O Gas-G: — WELL #: —
14. Date Drilling Completed: July 1965
18. If Gas, Amt. of Cond. on Hand at time of Plugging: N/A
15. Date Well Plugged: 1-12-93

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	1/9/93	1/9/93	1/9/93					
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8	2 7/8	2 7/8					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5480	1500	12					
*22. Sacks of Cement Used (each plug)	15	15	2					
*23. Slurry Volume Pumped (cu. ft.)	15.9	15.9	2.12					
*24. Calculated Top of Plug (ft.)	5100	1020	3					
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. # /Gal.	15.6	15.6	15.6					
*27. Type Cement	H	H	H					

MAR 01 1993

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE(in.)
7 5/8		545	542	
2 7/8		5591	5588	

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.) —

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 5531 TO 5536		FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

C.G.C. Well Salvaging, Inc.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Cheryl DeShields
REPRESENTATIVE OF COMPANY

Engineering Secretary
TITLE

1/25/93
DATE

512 883-1911
A/C NUMBER

RECEIVED RAILROAD COMMISSION OF TEXAS
JAN 26 1993
SAN ANTONIO, TX

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

2/17/93

MAPPING 158

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? CIRCULATED

33. Mud Weight 9.5# LBS/GAL

34. Total Depth 5600

Depth of Deepest Fresh Water 1200

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	1200

35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules? [X] Yes [ ] No

36. If NO, Explain —

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: C.G.C. Well Salvaging, Inc. P.O. Box 4609 Corpus Christi, Texas 78469

Date RRC District Office notified of plugging 1-10-93

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Thomas D. Barrow, 4605 Post Oak Place, Suite 207, Houston, Texas 77027-9720
AMOCO Production Company, P. O. Box 3092, Houston, Texas 77253
Exxon Company USA, P. O.Box 2186, Houston, Texas 77252-2180

39. Was Notice Given Before Plugging to Each of the Above? Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed? None

42. Amount of Oil produced prior to Plugging _____ -0- bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

02447

01 Jun 01 23

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for a period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

RECEIVED JUL 1 1965 SAN ANTONIO, TEXAS

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1956

FIELD NAME: LAURA THOMSON (5600 FT SAND) OIL DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: HUMBLE OIL & REFINING COMPANY
(Use Name you will use on your R.R. Report in reporting Production.)

NAME OF LEASE: LAURA T. BARRON "B" LEASE NUMBER: 02507 WELL NO. 19

ADDRESS: CORPUS CHRISTI, TEXAS 78401 SECTION — BLOCK —
(City and State)

P. O. BOX NO. WILSON TOWER SURVEY LOS SANTOS (A-64) ELEVATION 120' DF

COUNTY IN WHICH WELL IS LOCATED BEE Unit Designation — Ac. in Unit: —

9 Miles NE direction from PAPRICITA, TEXAS nearest postoffice or town.

Date potential test commenced 6-24 19 65 Hour 12:30 P. M.

Date potential test completed 6-25 19 65 Hour 12:30 P. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? YES Date Log filed WITH THIS REPORT

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 1400 TO 1100

Flowing pressure on tbg —

Length of test 24 Hrs. 0 Mins.

Size choke 5/32 Make choke TC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device?
YES

Is this well being jetted? NO

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? —

Oil producing during this test into TANK (Tank or Pit)

Date this well was last shot or acidized — If Shot No. Quarts used — If Acidized No. Gallons used —

Barrels of oil produced from this well since shot or treatment to time this test was started — (Answer only if this Test was occasioned by shooting or treating this well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test 88 (Applies to new and reworked wells only.)

— Percent water produced during this test TRACE Total depth of this well 5600 Ft.

Is this a test of a new well for which no previous allowable has been assigned? YES

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? NO

What is the 24-hour potential at which it is carried currently on proration schedule? —

If this test is the result of a workover what was the nature of the job? —

Hour well completed 1:00 P. M. Date well completed 6-22 19 65.

Data Necessary on Pumping Well

Make of Pumping unit —

Length of stroke used —

No. strokes per minute —

Size working barrel —

Length of test — Hrs. — Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size — H.P. Pump Model —

Pump Rating — B.P.D. Total Fluid at — Head

Setting Depth — Tubing Size —

Length of test — Hrs. — Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Name of P.L. Connection THE PERMIAN CORP. (TRUCKS)

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tester	PRODUCTION 100% Tank Tables
27	240	1000	5	8½	8	5	2	8½	177		177

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24 hours) 177 (100% Tank Tbl.)

GAS/OIL RATIO OF THIS WELL IS 1944 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 35.8

(OVER)

7/8 NW # 19 (2) 102 ft

02818.1 — 02901

C

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of Humble Oil & Refining Company

Date "Drilling, Plug Back or Deepening Permit" was issued 5-10-65

Is Location "REGULAR," or was "SPECIAL PERMIT" required? SPECIAL **

If special permit was secured what is permit number? 57412

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 13

Location of well, relative to lease boundaries of lease on which this well is located: *Below feet from _____ line and _____ feet from _____ line of the _____ ease

Size of surface casing 7 5/8" Number feet of surface casing set 535.53

Size of oil string 2 7/8" Number of feet of oil string run 5591.61

Type of tubing head McEvoy Type of Bradenhead McEvoy

Top of pay 5531 Ft. Total Depth 5600 Ft. Size tubing run _____

Perforated from 5533 to 5536 No. Shots 6 No. ft. tubing run _____

Kind of fuel used to drill this well Diesel Oil Amt. of fuel used _____

Where fuel was secured FURNISHED BY CONTRACTOR

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This tenday provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed that test and the top and bottom gauges of each tank into which production was run during duration of this test:

_____ Representative of Company making test

_____ Representative of Offset Operator for NONE Offset Operator

_____ Pipe Line Gauger for THE PERMIAN CORPORATION Pipe Line Company

Representative of the Railroad Commission _____

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

W. J. Young Representative of Company making test for HUMBLE OIL & REFINING COMPANY Company making test

SWORN TO AND SUBSCRIBED before me this the 9th day of July, 19 65

(Notary Seal) J. L. GALLOWAY

J. L. Galloway

Notary Public in and for Reeves County, Texas

REMARKS: *LOCATION: 1150' NE OF WELL #11 AND 514' SE OF WELL #12, AND ABOUT 1150' SW OF WELL # 13.

** WELL #12 HAS BEEN SEALED BY A REPRESENTATIVE OF THE RAILROAD COMMISSION.

0 1 1 0 1 2 4

DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

RECEIVED JUL 1 O.G. SAN ANTONIO, TEXAS

511 MELROSE BUILDING
HOUSTON 2, TEXAS

CEMENTING AFFIDAVIT

STATE OF TEXAS

COUNTY OF Victoria

BEFORE ME, a Notary Public in and for Victoria County, Texas, on this day personally appeared H. D. Monical of DOWELL, Division of The Dow Chemical Company, who, being by me duly sworn, deposes and says:

THAT on June 15, 1965. DOWELL, Division of The Dow Chemical Company cemented 545' (length) feet of 7-5/8" (size) casing in 9-7/8"-Hole Laura T. Barrow "B" (name of well) WELL NO. # B-19 near Papaloto, and in Bee County, Texas, with 266 cubic feet. Cement Was (was ~~xxxxxxxxx~~) circulated to surface.

By statement of the operator Humble Oil & Refining Company

The above work was done for Humble Oil & Refining Company (Name of Operator)

Route One, Box 247 (Address), Refugio (City), Texas (State)

BY H. D. Monical
H. D. Monical

Subscribed and sworn to before me this 6th. day of July, 1965.

Ted Haynes- Ted Haynes
NOTARY PUBLIC IN AND FOR
Victoria County, Texas.

(SEAL)

0848 — 02907

0 1 1 0 1 2 5

DOWELL **DOWELL** DIVISION OF THE DOW CHEMICAL COMPANY

511 MELROSE BUILDING
HOUSTON, TEXAS

RECEIVED
R.R. C. OF TEXAS
JUL 1 - 1965
O. G.
SAN ANTONIO, TEXAS

CEMENTING AFFIDAVIT

STATE OF TEXAS

COUNTY OF Victoria

BEFORE ME, a Notary Public in and for Victoria County, Texas, on this day personally appeared E. J. Cockrell of DOWELL, Division of The Dow Chemical Company, who, being by me duly sworn, deposes and says:

THAT on June 21, 1965. DOWELL, Division of The Dow Chemical Company cemented 5599 (length) feet of One String of 2-7/8" (size) casing in 6-3/4"-Hole Laura T. Barrow "B" (name of well) WELL NO. # B-19 near Papalote, and in Bee County, Texas, with 2274 cubic feet. Cement Was (was ~~xxxxxxxxx~~) circulated to surface.

By statement of the operator Mr. H. L. Conn

The above work was done for Humble Oil & Refining Company (Name of Operator)

Route One, Box 247 (Address), Refugio (City), Texas (State)

BY E. J. Cockrell
E. J. Cockrell

Subscribed and sworn to before me this 6th. day of July, 1965.

Ted Haynes- Ted Haynes
NOTARY PUBLIC IN AND FOR
Victoria County, Texas.

(SEAL)

0848 — 02907

0 1 1 0 1 2 6

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form I-1
11-2-62

RECEIVED R.R.C. OF TEXAS JUL 1 1 1965 SAN ANTONIO, TEXAS

INCLINATION REPORT

ONE COPY MUST BE FILED WITH EACH COMPLETION REPORT

Field Name Laura Thomson County Bee RRC Dist. No. 2

Operator Humble Oil & Refining Company Address Wilson Tower City Corpus Christi, Texas, 78401

Lease Name & No. Laura T. Barrow "B" - 02907 Well No. 19 Survey Los Santos (A-64)

RECORD OF INCLINATION

Depth (feet)	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
490	1/4	2.16	2.16
995	1/2	4.39	6.55
1400	1/2	3.52	10.07
1971	1	9.99	20.06
2400	1-1/4	9.35	29.41
2830	1-1/2	11.27	40.68
3300	1-1/2	12.31	52.99
3588	1-1/4	6.28	59.27
4020	1-3/4	13.18	72.45
4526	2	17.66	90.11
5010	2-1/2	21.10	111.21
5520	3-1/2	31.16	142.37

Total Displacement 142.37

Was survey run in Tubing _____ Casing _____ Open Hole X

Distance to nearest lease line 4200 feet

Distance to lease lines as prescribed by field rules 467 feet

Certification of personal knowledge Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.

[signature]
Signature

Humble Oil & Ref. Co.
Company

Operator Affidavit:

(Note: Party making affidavit must strike out inapplicable phrases, and must file explanatory statement when applicable.)

Before me, the undersigned authority, on this day, personally appeared M. E. Mitchell, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is acting at the direction and on behalf of the operator of the well identified in this instrument, and that such well was not intentionally deviated from the vertical whatsoever.

[signature] District Superintendent
Signature and Title of Affiant

Sworn and Subscribed to before me, this the 9th day of July, 19 65.

J. L. GALLOWAY

[signature]
Notary Public in and for Refugio County, Texas.

RRC Use Only:

Approved By: B. C. Eikel
Title: Engr IV
Date: 7-12-65

02907 — 8680

INTERPRETATION AND INSTRUCTIONS AS PER
STATEWIDE RULE 3.

II. INCLINATION SURVEYS

A. Requirement of

1. An inclination survey made by persons or [illegible] by the Commission shall be filed on a form prescribed by the [illegible] for each well drilled or deepened with rotary tools or when as a [illegible] operation the course of the well is changed.

a. The first shot point of such inclination survey shall be made at a depth not greater than [illegible] feet below the surface of the ground and succeeding shot points shall be made either at [illegible] foot intervals or at the nearest drill bit change thereto but not to exceed 1000 feet apart.

2. Inclination surveys conforming to these requirements may be made either during the normal course of drilling or after the well has reached total depth. Acceptable directional surveys may be filed in lieu of inclination surveys.

3. Copies of all directional or inclination surveys, regardless of the reason for which they are run, shall be filed as a part of or in addition to the inclination surveys otherwise required by this rule.

B. Reports

1. The report form prescribed by the Commission shall require that it be signed and certified by a party having personal knowledge of the facts therein contained.

a. The report shall include a tabulation of the maximum drifts which could occur between the surface and the first shot point and each two successive shot points, assuming that all of the unsurveyed hole between any two shot points has the same inclination as that measured at the lowest shot point, and the total possible accumulative drift, assuming that all measured angles of inclination are in the same direction.

2. In addition, the report shall be accompanied by a sworn statement of the operator, or of someone acting at his direction on his behalf either, (1) that the well was not intentionally deviated from vertical whatsoever or, (2) that the well was deviated at random, with an explanation of the circumstances.

3. The report shall be filed in the District office of the Commission for the district in which the well is drilled, by attaching one copy to each appropriate completion form for the well.

4. The Commission may require the submittal of the original charts, graphs, or discs resulting from the surveys.

011 Op file 2 file

HUMBLE OIL & REFINING COMPANY

CORPUS CHRISTI, TEXAS, 78401

CORPUS CHRISTI AREA — July 12, 1965 — WILSON TOWER

REQUEST FOR EXCEPTION TO STATEWIDE RULE 13-C

Railroad Commission District 2

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION
ERNEST O. THOMPSON STATE BLDG.
AUSTIN, TEXAS

An exception to Statewide Rule 13-C is respectfully requested for the following:

LEASE NAME Laura T. Barrow "B" WELL NO. 19

FIELD Laura Thomson (5600' 74 SL) COUNTY Bee

FRESH WATER PROTECTION ADVISED

Texas Water Commission Letter 4-22-65
Exception received to set 500' of surface casing and cement production string to surface. Depth 1500'
Field Rules

SURFACE CASING

Size 7-5/8" Depth Set 545.53' Cement 225 Sacks 3 % Gel

INTERMEDIATE CASING

Size Depth Set Cement Sacks % Gel

PRODUCTION CASING

Size 2-7/8" No. of Strings 1 Set 5591.01',

Cement 564 Sacks 12 % Gel

PRODUCTION CASING CEMENTED FROM BOTTOM TO Surface

TOP OF HIGHEST POSSIBLE PRODUCTIVE SAND IN WELL 5531'

HUMBLE OIL & REFINING COMPANY
Wilson Tower, Corpus Christi, Texas

By George C. Edgerton

GC:dnw

RAILROAD COMMISSION OF TEXAS

Approved by A. H. Brooks Date 7-14-65

JUL 14 1965

0848 — 0247

MAP ID #72

API# 42-025-01562
OIL WELL
PLUGGED

01562

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (if available) 42-025-01562

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
4. RRC Lease or Id. Number: 02907
5. Well Number: 11
2. FIELD NAME (as per RRC Records): Laura Thomson (5600 #4 Sand)
3. Lease Name: Laura T. Barrow "B"
6. OPERATOR: Exxon Company, U.S.A.
6a. Original Form W-1 Filed in Name of:
10. County: Bee
7. ADDRESS: P.O. Box 2528, Corpus Christi, Texas 78403-2528
6b. Any Subsequent W-1's Filed in Name of:
11. Date Drilling Permit Issued: 6-18-63
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 4500 Feet From WEST Line and 5600 Feet From NORTH Line of the LAURA T. BARROW 'B' Lease
12. Permit Number: None
9a. SECTION, BLOCK, AND SURVEY: M. DeLos Santos (A-64)
9b. Distance and Direction From Nearest Town in this County: 11.3 miles east of Skidmore, Tx.
13. Date Drilling Commenced: 8-8-63
16. Type Well (Oil, Gas, Dry): Oil
Total Depth: 5601
17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s — GAS ID or OIL LEASE #: ; Oil-O Gas-G: ; WELL #:
14. Date Drilling Completed: 7-17-63
18. If Gas, Amt. of Cond. on Hand at time of Plugging:
15. Date Well Plugged: 1/31/89

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	013089	013089						
20. Size of Hole or Pipe in which Plug Placed (inches)	27/8	27/8						
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5542	1400						
*22. Sacks of Cement Used (each plug)	16	40						
*23. Slurry Volume Pumped (cu. ft.)	18.88	47.2						
*24. Calculated Top of Plug (ft.)	5200	4						
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	15.6	15.6						
*27. Type Cement	ClassH	ClassH						

RECORD CODIFICATION
MAR 20 1989

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
75/8	20	511	511	97/8
27/8	6.4	5601	5601	6 3/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? [X] Yes [ ] No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

1. Top of junk @ 2700'.
2. 1141' of 1½" 2.75# 10R NU Tbg, 3-GLV's & Nat'l Pkr.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 5534 TO 5542
FROM TO
FROM TO
FROM TO
FROM TO
FROM TO
FROM TO
FROM TO
FROM TO
FROM TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Culberson Well Service, Inc., 2/8/89
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Linda Anain — REPRESENTATIVE OF COMPANY
PRORATION SPECIALIST — TITLE
2-13-89 — DATE
Phone 512 8897108 — A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

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FEB 15 1989
O.G.
SAN ANTONIO, TX

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? Pumped down 2 7/8" csg

33. Mud Weight 9.8 LBS/GAL

34. Total Depth 5601

Depth of Deepest Fresh Water 1350

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [✓] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
Culberson Well Service, Inc. P.O. Box 2266, Victoria, Texas 77902

Date RRC District Office notified of plugging 1/27/89

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

HEWIT & DOUGHERTY LAMBERT PLAZA REFUGIO, TX. 78377
WISER OIL CO. C/O AVTC 560 W. MAIN SUITE 202 LEWISVILLE, TX. 75067
DYOCO EXPLORATION C/O CLARKE CO. 2510 TIMES BLVD. HOUSTON, TX. 77005
W.C. MILLER 1110 ALAMO NAT'L BK. BLDG. SAN ANTONIO, TX. 78205
MARTY L. GRIFFITH & ASSOCIATES 11211 KATY FREEWAY, SUITE 606 HOUSTON, TX. 77079
UTX EXPLORATION, INC. P.O.BOX 4548 VICTORIA, TX. 77903

39. Was Notice Given Before Plugging to Each of the Above?
YES

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:
[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS No production csg recovered.
Cut and capped well 4' below ground level.

#38 CONT.
AMOCO PRODUCTION CO. P.O. BOX 3092 HOUSTON, TX. 77253
HEAD & WELSH P.O.BOX 16290 HOUSTON, TX. 77222
MUELLER ENGR. CORP. 1010 FCT II CORPUS CHRISTI, TX. 78478
HARDWOOD EXPLORATION, INC. 720 MESQUITE CORPUS CHRISTI, TX. 78401
THOMAS D. BARROW 1010 LAMAR, SUITE 400 HOUSTON, TX. 77002

MAP ID #73

API# 42-025-02484
OIL WELL
PLUGGED

C 013 00927

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

2. FIELD NAME (as per RRC Records): LAURA THOMSEN (5600 #4 SAND)

3. LEASE NAME: LAURA T. BARRON 'B'

4. RRC Lease or Id. Number: 02170

5. Well Number: 20

6. OPERATOR: EXXON CORPORATION

10 County: BEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11. Date Drilling Permit Issued: 11-15-65

8. SURFACE LOCATION: 4200 FEET FROM SE OR NW LINE, AND 6125 FEET FROM SW OR NE LINE

12. Date Drilling Commenced: 12-9-65

9. SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS (A-64)

13. Date Drilling Completed: 12-29-65

15. Type of Well (Oil, Gas, Dry*): OIL

16. Type of Completion (Single, Dual, Etc.): SINGLE

17. Total Depth: 5601

14. Date Well Plugged: 11-5-76

18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19. Manner of Placement

PLUG #1	150	SACKS	TOP	4	BOTTOM	553	TYPE CLASS H
PLUG #2		SACKS	TOP		BOTTOM		TYPE
PLUG #3		SACKS	TOP		BOTTOM		TYPE
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20. Was well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [ ] NO [X]

21. How was Mud applied? —

22. Mud Weight: — LBS/GAL

23. Depth of Deepest Fresh Water: 1600 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [ ] NO [ ]

25. If NO, Explain: 2 7/8" CASING PULLED WITH CEMENT FROM 4' TO 553'

26. Name and Address of Perry Plugging Well: SPARTAN WELL SERVICE, INC., BOX 1496, CORPUS CHRISTI, TEXAS 78403

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
7 5/8"	533.40		529.50	
2 7/8"	5574.93		5570.93	

7 5/8" & 2 7/8" CASING CEMENTED TO SURFACE.

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

BLAIR - VREELAND, BOX 2603, CORPUS CHRISTI, TEXAS 78403
CARRL OIL COMPANY, 1700 GUARANTY BK. PLAZA, CORPUS CHRISTI, TEXAS 78401
MITCHELL ENERGY CORPORATION, 3700 ONE SHELL PLAZA, HOUSTON, TEXAS 77002

29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST — TITLE

11-30-76 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

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SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:
☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS 7 5/8" & 2 7/8" CASING CUT OFF 4' BELOW GROUND & CAPPED.

000073 0928

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) [illegible] 5600 #4 SAND	*2. RRC District
*3. Operator [illegible] CORPORATION	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or G. U. Number(s) LAURA [illegible] B 02407	*6. Well Number -20
*7. Location (Section, Block, and Survey) M. DE LOS SANTOS (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						3907
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	11-5-76					
*20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8					
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5230'					
22. Sacks of Cement Used (each plug)	150					
23. Slurry Volume Pumped (cu. ft.)	165.0					
24. Calculated Top of Plug (ft.)	[illegible]					
*25. Measured Top of Plug (if tagged) (ft.)						

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DEC - 2 1976
O & G
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:	*27. Remarks:
Plugs OK'd by RRC - Dist. #2.	DEC - 6 1976

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Rodney Johnson

Signature of Cementer or Authorized Representative

Rodney Johnson Agent

Name of Person and Title (type or print)

Spartan Well Service, Inc.

Cementing Company

PO Box 1496

Street Address or P.O. Box

Corpus Christi, Tex. 78403

City, State Zip Code

Telephone 512 883-1838
Area Code

November 8, 1976

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

EXXON CORPORATION

*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

*City, State Zip Code

*Telephone 512 884-4571
Area Code

11-30-76

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface; or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

80285

0 1 1 [illegible] 1 2 8

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

FIELD NAME: LAURA THOMSON (5600' No. 4 SAND) RRC DISTRICT NUMBER: 2
(Use name by which this field designated on current proration schedule.)

NAME OF OPERATOR: HUMBLE OIL & REFINING COMPANY
(Use Name you will use on your R.R. Report in reporting Production.)

NAME OF LEASE: LAURA T. BARROW B LEASE NUMBER: 02907 WELL NO. 20

ADDRESS: CORPUS CHRISTI, TEXAS, 78401 SECTION — BLOCK —
(City and State)

P. O. BOX NO. WILSON TOWER SURVEY A. DE LOS SANTOS (A-64) ELEVATION 115' DF

COUNTY IN WHICH WELL IS LOCATED BEE Unit Designation — Ac. in Unit —

5 Miles NE direction from PAPALOTE, TEXAS nearest postoffice or town.

Date potential test commenced 12-28, 1965 Hour 6:00 P.M. M.

Date potential test completed 12-29, 19— Hour 6:00 P.M. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? YES Date Log filed WITH THIS REPORT

DATA ON POTENTIAL TEST

Date Necessary on Flowing Well

Flowing pressure on csg 675

Flowing pressure on tbg TUBINGLESS

Length of test 24 Hrs. 0 Mins.

Size choke 3/8 Make choke TC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? YES

Is this well being jetted? NO

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? —

Oil producing during this test into TANK (Tank or Pit)

Date this well was last shot or acidized — If Shot No. Quarts used — If Acidized No. Gallons used —

Barrels of oil produced from this well since shot or treatment to time this test was started — (Answer only if this test was occasioned by shooting or treating this well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test 26 (Applies to new and reworked wells only.)

— Percent water produced during this test TRACE Total depth of this well 5585 Ft.

Is this a test of a new well for which no previous allowable has been assigned? YES

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? NO

What is the 24-hour potential at which it is carried currently on proration schedule? —

If this test is the result of a workover what was the nature of the job? —

Hour well completed 6:00 P. M. Date well completed 12-29, 1965.

Date Necessary on Pumping Well

Make of Pumping unit —

Length of stroke used —

No. strokes per minute —

Size working barrel —

Length of test — Hrs. — Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size — H.P. Pump Model —

Pump Rating — B.P.D. Total Fluid at — Head

Setting Depth — Tubing Size —

Length of test — Hrs. — Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials? —

Name of P.L. Connection HUMBLE PIPE LINE CO.

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION RECEIVED 96% Gravity Tables	PRODUCTION RECEIVED 100% Tank Tables
FLOW METER		FINAL READING			22063					JAN 1	1965
		INITIAL READING			21949						
		PRODUCTION			114				114	O. C. SAN ANTONIO, TEXAS	114

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24 hours) 114 (100% Tank Tbl.)

GAS/OIL RATIO OF THIS WELL IS 640 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 35.8

(OVER)

T10S R19E NW# 20 @ 10-48 1-49

0848 — 02907

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of HUMBLE OIL & REFINING COMPANY

Date "Drilling, Plug Back or Deepening Permit" was issued [illegible]

Is Location "REGULAR," or was "SPECIAL PERMIT" required? SPECIAL

If special permit was secured what is permit number? 58,550

Total number of acres in this lease 612.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 12

Location of well, relative to lease boundaries of lease on which this well is located: 757' BELOW feet from [illegible] line and [illegible] feet from [illegible] line of the [illegible] lease

Size of surface casing 7 5/8" Number feet of surface casing set 533.80

Size of oil string 2 7/8" Number of feet of oil string run 5574.93

Type of tubing head McEvoy Type of Bradenhead McEvoy

Top of pay 5530 Ft. Total Depth 5585 Ft. Size tubing run NONE

Perforated from 5530 to 5533 No. Shots 6 No. ft. tubing run —

Kind of fuel used to drill this well NATURAL GAS Amt. of fuel used —

Where fuel was secured LAURA T. BARROW 'C' LEASE.

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

[signature] Representative of Company making test

NOT AVAILABLE Representative of Offset Operator for HARKINS AND COMPANY Offset Operator

[signature] Pipe Line Gauger for HUMBLE PIPE LINE COMPANY Pipe Line Company

Representative of the Railroad Commission [illegible]

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

[signature] J. B. BEST, JR. Representative of Company making test for HUMBLE OIL & REFINING COMPANY Company making test

SWORN TO AND SUBSCRIBED before me this the 3RD day of JANUARY, 19 62

(Notary Seal) [signature]

Notary Public in and for [illegible] County, Texas

REMARKS: LOCATION: 757' SE OF #9; 1040' SW OF #11; 1200' NE OF #8; 4200 SE OF THE NW LINE OF THE LEASE.

011 0129

HUMBLE OIL & REFINING COMPANY

CORPUS CHRISTI, TEXAS, 78401

CORPUS CHRISTI AREA — January 4, 1966 — WILSON TOWER

REQUEST FOR EXCEPTION TO STATEWIDE RULE 13-C

RAILROAD COMMISSION DISTRICT 2

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION
ERNEST O. THOMPSON STATE BLDG.
AUSTIN, TEXAS

An exception to Statewide Rule 13-C is respectfully requested for the following:

LEASE NAME Laura T. Barrow "B" WELL NO. 20

FIELD Laura Thomson COUNTY Bee

FRESH WATER PROTECTION ADVISED

Texas Water Commission Letter 10-25-65

Depth 1600' *

Field Rules

* Exception granted 10-28-65 to set 500' of surface casing.

SURFACE CASING

Size 7-5/8" Depth Set 540' Cement 140 Sacks 8 % Gel
Cemented to Surface

INTERMEDIATE CASING

Size Depth Set Cement Sacks % Gel

PRODUCTION CASING

Size 2-7/8" No. of Strings 1 Set 5585' , , ,

Cement 950 Sacks 8 % Gel

PRODUCTION CASING CEMENTED FROM BOTTOM TO Surface

TOP OF HIGHEST POSSIBLE PRODUCTIVE SAND IN WELL 5506'

HUMBLE OIL & REFINING COMPANY
Wilson Tower, Corpus Christi, Texas

By [signature]

GC:dnw

RAILROAD COMMISSION OF TEXAS

Approved by A. H. Barbeck BDm Date 1-6-66

0848 — 02907

0 1 1 0 1 3 0

Railroad Commission of Texas

OIL AND GAS DIVISION

AUSTIN, TEXAS

COMMISSIONERS
BEN RAMSEY
Chairman
BYRON TUNNELL
JIM C. LANGDON

ARTHUR H. BARBECK
Chief Engineer

October 28, 1965

Humble Oil & Refining Company
Wilson Tower
Corpus Christi, Texas

Attn: George C. Edgerton

Gentlemen:

IN RE: Your Laura T. Barrow "B" Well No.20, Laura Thomson Field, Bee County, Texas

This will acknowledge receipt of your letter dated October 26, 1965 concerning the above-captioned well.

Authority is hereby granted to set approximately 500 feet of surface casing and to cement the long string from the bottom of the hole to the surface of the ground or to a point above the shoe of the surface pipe. In the event the well is a dry hole and no production string is set, it will be necessary that sufficient cement plugs be set in the well bore to protect all fresh water sands.

You must comply with all other provisions of Statewide Rule 13(A)(2) and are reminded of that portion which requires the representative of the cement company performing the cementing job to furnish an affidavit stating the amount of cement placed behind the pipe. This affidavit is to accompany the Potential Test (Form 3) in the case of an oil well and to accompany the Form GWT-1 and/or Form 2 in the case of a gas well.

It is requested that the Railroad Commission District Office shown below be notified approximately 12 hours prior to the time casing is cemented in this well. If it is necessary to give this notification at a time when the district office is closed, please contact a member of the Commission's district staff at one of the telephone numbers listed under "Night Telephone Numbers".

DIST. OFFICE	TELEPHONE NO.
San Antonio	512-CA6-1371-2

Night Telephone Nos.

OL5-0790
PL6-3553

BCM:ced

cc:RRC San Antonio

Yours very truly,

Arthur H. Barbeck
Chief Engineer

By _____

0548—02907

0 1 1 0 1 3 1

HUMBLE OIL & REFINING COMPANY

CORPUS CHRISTI, TEXAS 78401

CORPUS CHRISTI AREA

October 26, 1965

WILSON TOWER

Exception to Statewide Rule
13 (A)(1), Laura T. Barrow
"B" Well No. 20, Laura
Thomson Field, Bee County, Texas

Mr. B. D. McKendree
Railroad Commission of Texas
Oil and Gas Division
Ernest O. Thompson State Bldg.
Austin, Texas

Dear Sir:

We respectfully request an exception to Statewide Rule 13(A)(1) for our Laura T. Barrow "B" Well No. 20, Laura Thomson Field, Bee County, Texas. The Texas Water Commission advises fresh water-bearing strata should be protected to 1600'.

We propose to set approximately 500' of 7-5/8" surface casing and cement back to the surface. Production strings will be cemented from total depth to surface to protect fresh water-bearing strata. A similar exception was granted for our Wells 18 and 19, same field, on May 5, 1965.

Yours very truly,

W. J. BARRETT
Area Production Manager

By [illegible]

FR:dnw

cc: Mr. C. D. Ehrhardt, Jr.
Mr. D. O. Harvey

Set 500' surface
+ cmt. long string

0848—02407

OCT 28 1965

011 0132

DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

511 MELROSE BUILDING
HOUSTON 2 TEXAS

CEMENTING AFFIDAVIT

STATE OF TEXAS

COUNTY OF Victoria

BEFORE ME, a Notary Public in and for Victoria County, Texas, on this day personally appeared E. J. Cockrell of DOWELL, Division of The Dow Chemical Company, who, being by me duly sworn, deposes and says:

THAT on December 21, 1965. DOWELL, Division of The Dow Chemical Company cemented 5584 (length) feet of one String of 2-7/8" (size) casing in 6-7/8"-Hole L. T. Barrow (name of well) WELL NO. # B-20 near Woodsboro, and in Refugio County, Texas, with 1815 cubic feet. Cement Was (was ~~xxxxxxx~~) circulated to surface.

By statement of the operator L. D. Kemp

The above work was done for Humble Oil & Refining Company (Name of Operator)

Route One, Box 247 (Address), Refugio (City), Texas 78377 (State)

RECEIVED
R. R. C. OF TEXAS
JAN 4 1966
O. G.
SAN ANTONIO, TEXAS

BY E. J. Cockrell
E. J. Cockrell

Subscribed and sworn to before me this 27th day of December, 1965.

Ted Haynes
NOTARY PUBLIC IN AND FOR Victoria County, Texas.

(SEAL)

C-2907 — 0845

0 61 0133

DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

511 MELROSE BUILDING
HOUSTON 2, TEXAS

CEMENTING AFFIDAVIT

STATE OF TEXAS

COUNTY OF Victoria

BEFORE ME, a Notary Public in and for Victoria County, Texas, on this day personally appeared E.J. Cockrell of DOWELL, Division of The Dow Chemical Company, who, being by me duly sworn, deposes and says:

THAT on December 11, 196 5. DOWELL, Division of The Dow Chemical Company cemented 540' (length) feet of 7 5/8 (size) casing in L.T. Harrow (name of well) WELL NO. B-20 near Woodsboro, and in Refugio County, Texas, with 240(240 sks.) cubic feet. Cement Was (was ~~not~~) circulated to surface.

By statement of the operator E.E. Ford

The above work was done for Humble Oil and Refining Co. (Name of Operator)

Rt. 1 Box 247 (Address), Refugio (City), Texas (State)

RECEIVED
M. R. C. OF TEXAS
JAN 4 1965
O. G.
SAN ANTONIO, TEXAS

BY E. J. Cockrell

Subscribed and sworn to before me this 15 day of Dec, 1965.

JAN 4 1965
O. G.
SAN ANTONIO, TEXAS

T. J. Brown Jr.
NOTARY PUBLIC IN AND FOR Victoria County, Texas.

(SEAL)

8680 — 03907

0 1 0 1 3 4

Form I-1
11-2-62

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

INCLINATION REPORT

ONE COPY MUST BE FILED WITH EACH COMPLETION REPORT

Field Name Laura Thomson County Bee RRC Dist. No. 2

Operator Humble Oil & Refining Company Address Wilson Tower Corpus Christi, City Texas. 78401

Lease Name & No. Laura T. Barrow "B" 02907 Well No. 20 Survey M. de Los Santos A-64

RECORD OF INCLINATION

Depth (feet)	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
500	1/4	2.20	2.20
1000	1	8.75	10.95
1500	1-1/4	10.90	21.85
2000	1	8.75	30.60
2500	1	8.75	39.35
3000	1/2	4.35	43.70
3500	1/2	4.35	48.05
4000	1/4	2.20	50.25
4508	1/4	4.42	54.67
5000	1/2	4.28	58.95
5400	1/4	1.76	60.71
5585	1/4	.81	61.52

Total Displacement 61.52

Was survey run in Tubing _____ Casing _____ Open Hole X

Distance to nearest lease line 4200 feet

Distance to lease lines as prescribed by field rules 467 feet

RECEIVED
R. R. C. OF TEXAS
JAN 4 1966
O. G.
AUSTIN, TEXAS

Certification of personal knowledge Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.

[signature]
Signature

[signature]
Company

Operator Affidavit:

(Note: Party making affidavit must strike out inapplicable phrases, and must file explanatory statement when applicable.)

Before me, the undersigned authority, on this day, personally appeared D. O. Harvey, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath ~~[illegible]~~ (that he is acting at the direction and on behalf of the operator of the well identified in this instrument), and that such well was not intentionally deviated from the vertical whatsoever. ~~[illegible]~~

[signature] District Superintendent
Signature and Title of Affiant

Sworn and Subscribed to before me, this the 3RD day of JANUARY, 1966.

_____
Notary Public in and for _____ County, Texas.

RRC Use Only:

Approved By: Diana Kitchen
Title: [illegible]
Date: 1-[illegible]-66

0898 — 02907

MAP ID #74

API# 42-025-02479
GAS WELL
PLUGGED

02479 (74)

EXXON OIL CO.
L.T. BARROW #89
1103

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. (if available)

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
4. RRC Lease or Id. Number: 030546
5. Well Number: 9
10. County: Bee
11. Date Drilling Permit Issued: 5-23-63
12. Permit Number:
13. Date Drilling Commenced: 5-28-63
14. Date Drilling Completed: 6-9-63
15. Date Well Plugged: 6-24-80

2. FIELD NAME (as per RRC Records): Laura Thomson (5600 #4 Sand)
3. Lease Name: Laura T. Barrow "B"
6. OPERATOR: Exxon Corporation
7. ADDRESS: Wilson Tower Corpus Christi, Tx 78476
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3423 Feet from NW Line and 772 Feet from W Line of the Laura T. Barrow "B" Lease
9. Distance and Direction from Nearest Town in this County: 7.7 miles NE from Papalote, Tx.
9a. SECTION, BLOCK, AND SURVEY: James Burke A-8
9. Type Well (Oil, Gas, Dry): Gas
Total Depth: 5650
If Multiple Completion, Indicate All Reservoirs: Gas Well No.
Oil Lease: Gas ID or Oil Lease No.
Oil (BBLS) / Gas (MCF)
14. If Gas, Amt. of Cond. on Hand at time of Plugging:

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	6/24/80							
20. Size of Hole or Pipe in which Plug Placed (inches)	7⅝ 2⅜							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4516							
*22. Sacks of Cement Used (each plug)	23							
*23. Slurry Volume Pumped (cu. ft.)								
*24. Calculated Top of Plug (ft.)	5'							
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. (#/Gal.)	15.6							
*27. Type Cement	Class H - 2% Gel - 0.5% CFR-2							

28. CASING AND TUBING RECORD AFTER PLUGGING — Were any Non-Drillable Material, Other than Casing, Left in This Well? Yes / No

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
7⅝		506.10	506.10	
2⅜		5613.91	5613.91	

(If answer is "yes", give size, depth to top of "junk", and describe junk briefly (exercise non-drillable material). Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 4516 TO 4522		FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

DOWELL DIVISION OF DOW CHEMICAL U.S.A.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

G.F. Preston — Proration Specialist — 11-15-82 — Phone 512-887-2228
REPRESENTATIVE OF COMPANY G.F. Preston — TITLE — DATE — A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission? [X] Yes [ ] No

32. How was Mud Applied? Pumped In

33. Mud Weight 9.5 LBS/GAL

34. Total Depth 5650

Depth of Deepest Fresh Water 1600

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

If NO, Explain

36. Name and Address of Cementing or Service Company who placed and pumped cement plugs in this well: Dowell Inc. - P.O. Box 610 Alice, Tx. 78332

Date RRC District Office notified of plugging: 6-9-80

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

39. Was Notice Given Before Plugging to Each of the Above? /

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to ..... Date .....

Type Logs

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-4 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging ..... bbls*

* File FORM P-4 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field .....

REMARKS .....

MAP ID #75

API# 42-025-32499
SWD
SHUT IN

(75)

GIS Identify Results - Well Location Attributes

API	02532499
GIS WELL NUMBER	31
GIS SYMBOL DESCRIPTION	Injection from Oil
GIS LOCATION SOURCE	Commission's hardcopy map
GIS LAT	28.2759428
GIS LONG	-97.5049283
Well Logs	Drilling Permits

OPERATOR/WELLBORE

WELLBORE STATUS	OPEN
LAST PERMIT ISSUED	352543
LAST PERMIT OPERATOR NUMBER	592645
LAST PERMIT OPERATOR	MUELLER ENGINEERING CORP.
LAST PERMIT LEASE NAME	BARROW, LAURA T. "B"
TOTAL DEPTH	5562
SURFACE LOCATION	Land

Oil/Gas Imaged Records for API: 025-32499

COMPLETION RECORD

Injection/Disposal - Disposal into a nonproductive zone(W-14)

PRORATION SCHEDULE	OIL
DISTRICT	02
LEASE/ID	02907
OPERATOR NUMBER	235945
OPERATOR	DURANGO RESOURCES CORP.
LEASE NAME	BARROW, LAURA T., -B-
FIELD	LAURA THOMSON (5600 #4 SAND)
WELL NUMBER	31
TYPE WELL	SHUT IN
ON SCHEDULE	YES
Production Data Query(PDQ)	Oil/Gas Imaged Records for Lease/ID: 02907

RRC ONLINE SYSTEM

Log In

H10 Filing System

H10 Public Main Public Query Help

0.00 sec

Injection Volumes

Injection Volume Query

Return To Search

Search Criteria:

- From:1995
- To:2014
- District:02
- UIC Number:000087439
- County:BEE
- Commercial:Disposal into a nonproductive zone (W-14)

Year	BBLS/MCF	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1995	BBLS												
	MCF												
1996	BBLS												
	MCF												
1997	BBLS												
	MCF												
1998	BBLS												
	MCF												
1999	BBLS												
	MCF												
2000	BBLS												
	MCF												
2001	BBLS												
	MCF												
2002	BBLS												
	MCF												
2003	BBLS												
	MCF												
2004	BBLS												
	MCF												
2005	BBLS												
	MCF												
2006	BBLS		2,206	2,728	2,503	3,028	3,111	2,972	3,207	3,316	3,123	2,816	2,914
	MCF		0	0	0	0	0	0	0	0	0	0	0
2007	BBLS	3,032	3,150	2,800	2,710	2,910	2,875	3,010	3,120	2,975	3,015	2,880	2,875
	MCF	0	0	0	0	0	0	0	0	0	0	0	0
2008	BBLS	2,850	2,850	3,105	2,950	2,875	2,710	2,825	2,805	2,780	2,850	2,910	2,875

	MCF	0	0	0	0	0	0	0	0	0	0	0	0
2009	BBLS	2,880	2,565	2,850	2,655	2,585	2,540	2,575	2,590	2,510	2,565	2,625	2,580
	MCF	0	0	0	0	0	0	0	0	0	0	0	0
2010	BBLS	2,890	2,570	2,640	2,685	2,575	2,560	2,545	2,555	2,495	2,510	2,585	2,570
	MCF	0	0	0	0	0	0	0	0	0	0	0	0
2011	BBLS	2,565	140	135	145	150	145	140	135	110	110	100	90
	MCF	0	0	0	0	0	0	0	0	0	0	0	0
2012	BBLS	100	0	0	0	0	0	0	0	0	0	0	0
	MCF	0	0	0	0	0	0	0	0	0	0	0	0
2013	BBLS	0											
	MCF	0											
2014	BBLS												
	MCF												

Return To Search

1 bbl = 42 gal 3316 bbl 9/06
139,272 gal per mo. 3.22 gpm

3

Type or print only

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-2
Rev. 4/1/83
483-046

UIC 87439

API No. 42- 025-32499

Oil Well Potential Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (5600 #4 Sand)	7 RRC District No: 02
2. LEASE NAME: ~~Laura T.~~ Barrow, "B" (Laura T., -B-)	8. RRC Lease No: 02907
3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): Mueller Engineering Corp.	9 Well No: 31
RRC Operator No: 592645	10 County of well site: Bee
4. ADDRESS: 545 N. Upper Broadway, Suite 900 Corpus Christi, TX 78476	11 Purpose of filing: Initial Potential ☐
5 If Operator has changed within last 60 days, name former operator	Retest ☐
6a Location (Section, Block, and Survey): M. De Los Santos, A-64	6b Distance and direction to nearest town in this county: 8 miles Northeast from Pawnee
12 If workover or reclass, give former field (with reservoir) & gas ID or oil lease no. FIELD & RESERVOIR	GAS ID or OIL LEASE # / Oil - O Gas - G / WELL NO.
	Reclass ☒
	Well record only (explain in Remarks) ☒
13. Type of electric or other log run: Halliburton Wireline Service	14. Completion or recompletion date: 06/08/01

RECEIVED
R.R.C. OF TEXAS
JUN 18 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15. Date of test	16 No of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)			18. Choke size
19. Production during Test Period ▶	Oil - BBLS	Gas — MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure PSI
20. Calculated 24-Hour Rate ▶	Oil - BBLS	Gas — MCF	Water — BBLS	Oil Gravity—API—60°	Casing Pressure PSI

21 Was swab used during this test? Yes ☐ No ☐ | 22 Oil produced prior to test (New & Reworked wells) | 23. Injection Gas—Oil Ratio

REMARKS:

For well record only, converted to water disposal.

RECEIVED
CENTRAL RECORDS
AUG 27 2001
AUSTIN, TEXAS

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

▶ WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge

Eduardo A. Riddle — MUELLER ENGINEERING CORP. — RRC Representative
Signature: Well Tester Eduardo A. Riddle — Name of Company

RECEIVED
PRODUCTION DATA
JUL 02 2001
OG-ENV SRVS
AUSTIN, TEXAS

▶ OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

EDUARDO A. RIDDLE — PRESIDENT
Typed or printed name of operator's representative — Title of Person

(361) 883-1911 — 06 / 11 / 01 — Eduardo A. Riddle
Telephone: Area Code Number — Date: mo day year — Signature

MAPPING 1/2

OK form

SECTION II — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☒XX

25. Permit to Drill, Plug Back or Deepen — DATE 10/24/88 — PERMIT NO. 352543
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO
Salt Water Disposal Permit ✓ 02/11/98 — PERMIT NO. 11026
Other — PERMIT NO.

26. Notice of Intention to Drill this well was filed in Name of
MUELLER ENGINEERING CORP.

27. Number of producing wells on this lease in this field (reservoir) including this well
N/A

28. Total number of acres in this lease
878

29. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 06/08/01 Completed 06/08/01

30. Distance to nearest well, Same Lease & Reservoir
N/A

31. Location of well, relative to nearest lease boundaries of lease on which this well is located
1000 Feet From Northwest Line and 5800 Feet from Southwest Line of the Laura T. Barrow "B" Lease

32. Elevation (DF, RKB, RT, GR, ETC.)
126' R.K.B.

33. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒X No

34. Top of Pay: 2050'
35. Total Depth: 5562'
36. P. B. Depth: 5380'
37. Surface Casing Determined by: Field Rules ☐; Recommendation of T.D.W.R. ☒X Dt. of Letter 10/04/88; Railroad Commission (Special) ☒X Dt. of Letter 11/01/88

38. Is well multiple completion?
No

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

40. Intervals Drilled by: Rotary Tools X; Cable Tools

41. Name of Drilling Contractor
Price Drilling Co.

42. Is Cementing Affidavit Attached? ☐ Yes ☒X No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	562'		80 sx – Poz	12 1/4"	Surface	187.2
				125 sx – Cl "A"	12 1/4"	300'	147.5
4 1/2"	11.6	5559'		850 sx – Premium	7 7/8"	Surface	1555.5
				225 sx – Cl "H"	7 7/8"	4300'	265.5

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	2017	2017

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From	3200'	To	3210'
From		To	
From		To	
From		To	

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Miocene	0' – 3850'		
Frio	3850' – 5120'		
Vicksburg	5120' – 5489'		

REMARKS
Well converted to salt water disposal service.

Type or print only

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-2
Rev. 4/1/83
483-046

API No 42- 025-32499

7 RRC District No: 02

8 RRC Lease No: 02907

Oil Well Potential Test, Completion or Recompletion Report, and Log

RECEIVED R.R.C. OF TEXAS AUG 29 1989

1 FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (5600 #4 Sand)

2. LEASE NAME: Laura T. Barrow "B"

9 Well No: 31

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): Mueller Engineering Corp.

RRC Operator No: 592648

10 County of well site: Bee

4 ADDRESS: 1010 First City Tower II, Corpus Christi, Texas 78478

11 Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (explain in Remarks) [ ]

5 If Operator has changed within last 60 days, name former operator

6a Location (Section Block and Survey): M. De Los Santos, A-64

6b Distance and direction to nearest town in this county: 8 miles Northeast from Papalote

12 If workover or reclass, give former field (with reservoir) & gas ID or oil lease no

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL NO

Return to Central Records

13 Type of electric or other log run: Halliburton Wireline Services

14 Completion or recompletion date: 08/14/89

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15 Date of test	16 No of hours tested	17 Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)	18 Choke size
08/14/89	24	Flowing	7/64"

	Oil - BBLS	Gas — MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19 Production during Test Period ▶	10.2	320	0	31,373	1000 PSI
20 Calculated 24-Hour Rate ▶	10.2	320	0	Oil Gravity—API—60° 34.5	Casing Pressure 0 PSI

21 Was swab used during this test? Yes [ ] No [X]

22 Oil produced prior to test (New wells & Reworked wells): 0

23 Injection Gas—Oil Ratio: N/A

RECORD CODIFICATION
OCT 10 1989

REMARKS.

8/19/89 + 204
549

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

WATER BOARD LETTER DATED 10-4-88

WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I conducted ~~or supervised this test by observation of (a) meter~~ readings or (b) the top and bottom gauges of each tank into which production was run during the test I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge

Depth 1350 ft.

13(A) Exception Dated 11-1-88

Eduardo A. Riddle — Mueller Engineering Corp.
Signature Well Tester — Name of Company

Surface Casing 500 ft.
RRC Representative

D. V. @ ft.

OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Jean Bogard
Typed or printed name of operator's representative

Agent
Title of Person

(512) 883-1911
Telephone Area Code Number

08 / 28 / 89
Date mo. day year

Signature

Mueller #3

PRODUCTION ALLOCATION

SEP 12 1989

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

25. Permit to Drill, Plug Back or Deepen — DATE 10/24/88 — PERMIT NO. 352543
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

26. Notice of Intention to Drill this well was filed in Name of: Mueller ENgineering Corp.

27. Number of producing wells on this lease in this field (reservoir) including this well: 4

28. Total number of acres in this lease: 878

29. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 07/18/89; Completed 07/26/89

30. Distance to nearest well, Same Lease & Reservoir: 600*

31. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1000 Feet From Northwest Line and 5800 Feet from Southwest Line of the Laura T. Barrow "B" Lease

32. Elevation (DF, RKB, RT, GR, ETC.): 126' R.K.B.

33. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

34. Top of Pay: 5489' | 35. Total Depth: 5562' | 36. P. B. Depth: 5503' | 37. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. [X] Dt. of Letter 10/04/88 Railroad Commission (Special) [X] Dt. of Letter 11/01/88

38. Is well multiple completion? No

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

40. Intervals Drilled by: Rotary Tools X | Cable Tools

41. Name of Drilling Contractor: Price Drilling Co.

42. Is Cementing Affidavit Attached? [X] Yes [ ] No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8-5/8"	24	562'		80 sx - Poz	12-1/4"	Surface	187.2
				125 sx - Cl "A"	12-1/4"	300'	147.5
4-1/2"	11.6	5559'		850 sx - Premium	7-7/8"	Surface	1555.5
				225 sx - Cl "H"	7-7/8"	4300'	265.5

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8"	5422'	5422'

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From	5493'	To	5495'
From		To	
From		To	
From		To	

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Miocene	0 - 3850		
Frio	3850 - 5120		
Vicksburg	5120 - 5487		

REMARKS * Closest well is shut in and will be recompleted in a different zone in the near future.

Restriction Comment Or Remark For
Drilling Permits

___Code A Regular provided this well is never completed in the same resevoir as any other well closer than _____ feet on this same lease.

___Code B Regular provided this well is not produced concurrently from the same reservoir as any other well closer than ___ feet on this lease.

___Code C Regular provided this well is never completed in violation of applicable special field or statewide spacing rules.

___ Code D Regular provided this well is never completed in the same lease & reservoir as any other well closer than _____ feet where field rules apply or _____ feet where statewide rules apply.

___Code F You do not have authority to use this well for salt water disposal or injection purposes until a Form W-14 or H-1 approved by the Railroad Commission, Austin office.

___Code H Regular provided this well is never produced concurrently from the same reservoir as _____.

___Code I Regular for core test only. B-8.

___Code J Regular for oil only.

___Code K Regular for gas only.

___Code L Regular for uranium test only.

___Code M Regular to drill injection well only. You do not have authority to use this well as an injection well until form H-1 is approved by the Railroad Commission, Austin Office.

___Code N Regular for LPG storage only.

___Code O Regular provided this well is never drilled deeper than _____ feet

___Code Q Regular provided this directional well is never completed any closer than _____ feet to any lease line.

___Code S Regular provided that upon successful completion of this well in the same reservoir as any other well previously assigned this acreage, a P-15 (for gas only) and revised proration plats must be submitted with no double assignment of acreage.

___Code V No allowable without amended W-1 and Commission approval of R-37 exception.

___Code W Wildcat above _____ feet.

___Code AA If completed below _____ feet in the _____field revised proration plats must be submitted.

___Code AB If completed below _____ feet in the _____field and _____ feet in the _____ field, revised proration plats must be submitted.

___Code AC Regular for sulphur core test only.

___Code AD Regular to drill only. You do not have authority to downhole commingle until exception to rule 10 is granted.

___Code AE Injection water supply source well only. Water shall not be removed until proper injection authority received from UIC.

___ Well permitted in gas.

___ Well permitted in oil

___ Lease line discrepancy _____.

9-12

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

RECEIVED R.R.C. OF TEXAS AUG 29 1979 SAN ANTONIO

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (5600 #4 Sand)	2. LEASE NAME: Laura T. Barrow
3. OPERATOR: Mueller Engineering Corp.	8. Well Number: B-31
4. ADDRESS: 1010 First City Tower II, Corpus Christi, Texas 78478	9. RRC Identification Number (Gas completions only): N/A
5. LOCATION (Section, Block, and Survey): 6500' FNWL and 5250' FSWL of M. De Los Santos Survey, A-64	10. County: Bee
	6. RRC District: 02
	7. RRC Lease Number. (Oil completions only): 02907

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
491	491	1/4	0.43	2.11	2.11
571	80	1/4	0.43	.34	2.45
1482	911	1/4	0.43	3.92	6.37
2100	618	1/2	0.87	5.38	11.75
3089	989	3/4	1.31	12.96	24.71
3402	313	3/4	1.31	4.10	28.81
4365	963	1-1/4	2.16	20.80	49.61
5260	895	1-1/2	2.62	23.45	73.06
5560	300	1-1/2	2.62	7.86	80.92

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 5560 feet = 80.92 feet.

*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 1000 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Richard B. Shaw
Signature of Authorized Representative

Richard B. Shaw-Vice President
Name of Person and Title (type or print)

PRICE DRILLING COMPANY
Name of Company

Telephone: 512/ 256-3363
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Jean Bogard
Signature of Authorized Representative

Jean Bogard, Agent
Name of Person and Title (type or print)

Mueller Engineering Corp.
Operator

Telephone: (512) 883-1911
Area Code

Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: 9-1-79

* Designates items certified by company that conducted the inclination surveys.

Cementer: Fill in shaded areas
Operator: Fill in other items.

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No.	3 RRC District No	4 County of Well Site
Mueller Engineering Corp.	592645	02	Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6. API No	7. Drilling Permit No
Laura Thomson (5600 #4 Sand)	42- 025-32499	352543

8. Lease Name	9 Rule 37 Case No	10. Oil Lease/Gas ID No	11 Well No
Laura T. Barrow "B"		02907	B-31

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		7/19/89					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		45%					
14 Size of casing (in OD)		8 5/8					
15 Top of liner (ft)		N/A					
16. Setting depth (ft)		562'					
17 Number of centralizers used		4					
18 Hrs waiting on cement before drill-out		8					
1st Slurry	19. API cement used: No. of sacks ▶	80					
	Class ▶	85:15 Poz					
	Additives ▶	8% Gel + 3% Salt					
2nd Slurry	No. of sacks ▶	125					
	Class ▶	A					
	Additives ▶	2% Cacl 2					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	187.2					
	Height (ft.) ▶	453.7					
2nd	Volume (cu. ft.) ▶	147.5					
	Height (ft.) ▶	357.4					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	334.7					
	Height (ft.) ▶	811.1					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		YES					

22 Remarks

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R.R.C. OF TEXAS
AUG 29 1989
SAN ANTONIO, TX

RECEIVED
JUL 2[illegible] 1989

WCNA 1070

Reply
File

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

RAUL RODRIGUEZ/Service Supervisor — Name and title of cementer's representative
The Western Company — Cementing Company
Raul Rodriguez — Signature

P. O. Box 1730 — Address
Alice, Tx 78333 — City, State, Zip Code
(512) 664-2607 — Tel., Area Code Number
7 19 89 — Date: mo. day yr.

OPERATOR'S CERTIFICATE. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Jean Bogard — Typed or printed name of operator's representative
Agent — Title
Jean Bogard — Signature

1010 First City Tower II, Corpus Christi, Texas 78478 — Address
(512) 88301911 — Tel.: Area Code Number
08/28/89 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Mueller Engineering, L. Barrow #13-31, Refugio .

Cementer: Fill in shaded areas.
Operator: Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
Mueller Engineering Corp.	592645	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7 Drilling Permit No**
Laura Thomson (5600 #4 Sand)		42-025-32499	352543
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Laura T. Barrow "B"		02907	31

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				7/26/89			
13 •Drilled hole size				7-7/8"			
•Est % wash or hole enlargement				43%			
14 Size of casing (in O.D.)				4-1/2"			
15. Top of liner (ft.)				N/A			3338
16 Setting depth (ft.)				5559'			
17. Number of centralizers used				9			
18 Hrs waiting on cement before drill-out				Not drilled out			
1st Slurry	19. API cement used: No. of sacks ▶			850			
	Class ▶			Premium			
	Additives ▶						
2nd Slurry	No. of sacks ▶			225			
	Class ▶			Premium			
	Additives ▶			.4% Halad-9 3% KCl			
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped: Volume (cu. ft.) ▶			1555.5			
	Height (ft.) ▶			6827.3			
2nd	Volume (cu ft.) ▶			265.5			
	Height (ft.) ▶			1163.3			
3rd	Volume (cu ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			1821			
	Height (ft.) ▶			7990.6			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				yes			

RECEIVED
R.R.C. OF TEXAS
AUG 29 1989
SAN ANTONIO, TX

22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge This certification covers cementing data only.

Billy Barnes/District Manager — Name and title of cementer's representative

Halliburton Services — Cementing Company

Billy Barnes — Signature

5338 Leopard St., Corpus Christi, Tx. 78408 — Address, City, State, Zip Code

512/289-1911 — Tel.: Area Code Number

7/27/89 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Jean Bogard — Typed or printed name of operator's representative

Agent — Title

Jean Bogard — Signature

1010 First City Tower II, Corpus Christi, Texas 78478 — Address, City, State, Zip Code

(512) 883-1911 — Tel.: Area Code Number

98/28/89 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

MUELLER ENGINEERING **STATUS** OIL
31 BARROW LAURA T /B/ (API 42-025 32499) (PERMIT # 352543)

LOC'N. (E/14S-20E 4), 9 MI N NE PAPALOTE TX, 878 AC LSE, SUR/EQUIV DE LOS SANTOS M, A-64, 6500 FNWL 5250 FSWL SUR 1000 FNWL 5800 FSWL LSE 600 N NW HUMBLE, # 23 BARROW "B", DEPL OW TD 5585, ORIG VICKSBURG PERFS @ 5519 5522, **(VERTICAL)**

SPUD. 07/18/89 **COMP** 08/14/89 **EL** 126 KB 116 GR **DTD** 5562 (VICKSBURG) **PBTD** 5503 **CONTR:** PRICE DRL **RIG** # 9

CSG/LNR/TBG. 8 5/8 @ 562 W/205 SX 4 1/2 @ 5559 W/1075 SX 2 3/8 @ 5422,

RESULT. IPF 10 BOPD 320 MCFGPD 0 WTR 7/64 CK GTY 34 5 GOR NOT RPTD, FTP 1000 PROD ZONE VICKSBURG (5600 # 4 SD) 5493 5495 TOOK SDWL CORES NO WLTS

COMP INFO. LOG TYPES. DENL 565-5562, DI 565 5562, GRL 565-5562, NEUT 565 5562, RAN COMB LOGS (DI DENL-NEUT-GRL), **PRODUCING INTERVAL(S) DATA: PERF** (VICKSBURG) 5493-5495,T/PAY 5489 PT COMP 8/14/89 FIELD/RESV LAURA THOMSON/5600 # 4 SD, **RIG REL:** 07/25/89

LOG TOPS. FRIO 3850 VICKSBURG 5120,

SDWL CORES. TOOK 24 REC 24,

COPYRIGHT 1989 PETROLEUM INFORMATION CORPORATION

▶ Return each W-1 with plat and $100.00 fee. Make check or money order payable to the State Treasurer of Texas. Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Drawer 12967, Capitol Station
Austin, Texas 78711
▶ File a copy of W-1 and plat in RRC District Office.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ Read Instructions on Back

Form W-1
Rev. 9/1/83
483-060

Purpose of filing (mark appropriate boxes).
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no at right & explain fully in Remarks)

Enter here, if assigned: API No. ▶ 42-025-32499 Permit No. ▶ 352543 Rule 37 Case No. ▶

1. Operator's Name (exactly as shown on Form P-5, Organization Report): Mueller ENgineering Corp. OK 10/21/88
3. RRC Operator No.: 592645
4. RRC District No: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 1010 First City Tower II, Corpus Christi, Texas 78478
G49845

6. Lease Name (32 spaces maximum): Laura T. Barrow "B"
7. RRC Lease/ID No: 02907
8. Well No: 31
9. Total Depth: 5550'

10. Location
• Section ____ Block ____ Survey M. De Los Santos Abstract No A- 64
• This well is to be located 8 miles in a NE direction from Papalote, which is the nearest town in the county of the well site

11. Distance from proposed location to nearest lease or unit line: 1000 ft
12 Number of contiguous acres in lease, pooled unit, or unitized tract: 878 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.

13. FIELD NAME	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Laura Thomson (5360 F-40) 52285166	5373'	467/1200	40	40	No	N/A	Oil	1	0
Laura Thomson (5600 #3) 52285498	5500'	467/1200	40	40	No	N/A	Oil/~~Gas~~	1	1
Laura Thomson (5600 #4 Sand) 52285830	5520'	467/1200	40	40	No	600'*	G/Oil	6	~~0~~ 1

Granted 10/24/88
300

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 1000' FNWL, 5800' FSWL
• Survey/Section 6500' FNWL, 5250' FSWL

If a directional well, show also projected bottom-hole location:
• Lease/Unit ____
• Survey/Section ____

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat) No [X]

24 Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25 Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see instructions for Rule 37.

Remarks
*This well is currently shut in and will not be producing concurrently with the proposed well. The #B-8 is also shut in and will not be produced concurrently with the proposed well.
Page 1 of 2

I certify that information stated in this application is true and complete, to the best of my knowledge.
Jean Bogard
Signature
Jean Bogard, Agent
Name and title of operator's representative
10/19/88
Date mo day yr
(512) 883-1911
Tel: Area Code Number

• RRC Use Only •
202866 OCT 21 88
352543

025-32499

Return each W-1 with plat and $100.00 fee. Make a check or money order payable to the State Treasurer of Texas. Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Drawer 12967, Capitol Station
Austin, Texas 78711
File a copy of W-1 and plat in RRC District Office.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

Read Instructions on Back

Form W-1
Rev. 9/1/83
483-060

Purpose of filing (mark appropriate boxes): [X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32499 Permit No. Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report)	3. RRC Operator No.	4. RRC District No.	5. County of Well Site
Mueller Engineering Corp.	592645	02	Bee

2. Address (including city and zip code)	6. Lease Name (32 spaces maximum)	7. RRC Lease/ID No.	8. Well No.	9. Total Depth
1010 First City Tower II Corpus Christi, Texas 78478	Laura T. Barrow "B"	02907	31	5550'

10 Location
- Section _____ Block _____ Survey M. De Los Santos Abstract No. A-64
- This well is to be located 8 miles in a NE direction from Papalote, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 1000 ft.

12. Number of contiguous acres in lease, pooled unit, or unitized tract 878 (OUTLINE ON PLAT)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Laura Thomson (4850) 52285166	4853'	467/1200	40	40	No	N/A	Gas	0	1
~~Laura Thomson (5600 #4 Sand)~~	~~5530'~~	~~467/1200~~	~~40~~	~~40~~	~~No~~	~~N/A~~	~~Gas~~	~~0~~	~~1~~
Wildcat 4001	Above 5550'	467/1200	40	40	No	N/A	Gas/Oil	1	1

22 Perpendicular surface location from two nearest designated lines:
- Lease/Unit 1000' FNWL, 5800' FSWL
- Survey/Section 6500' FNWL, 5250' FSWL

Code 05550

If a directional well show also projected bottom-hole location:
- Lease/Unit Code A1500 Code 11 B-8
- Survey/Section

23. Is this a pooled unit? Yes [ ] (Attach Form P-12 and certified plat.) No [X]

24 Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] If not filed, explain in Remarks

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37

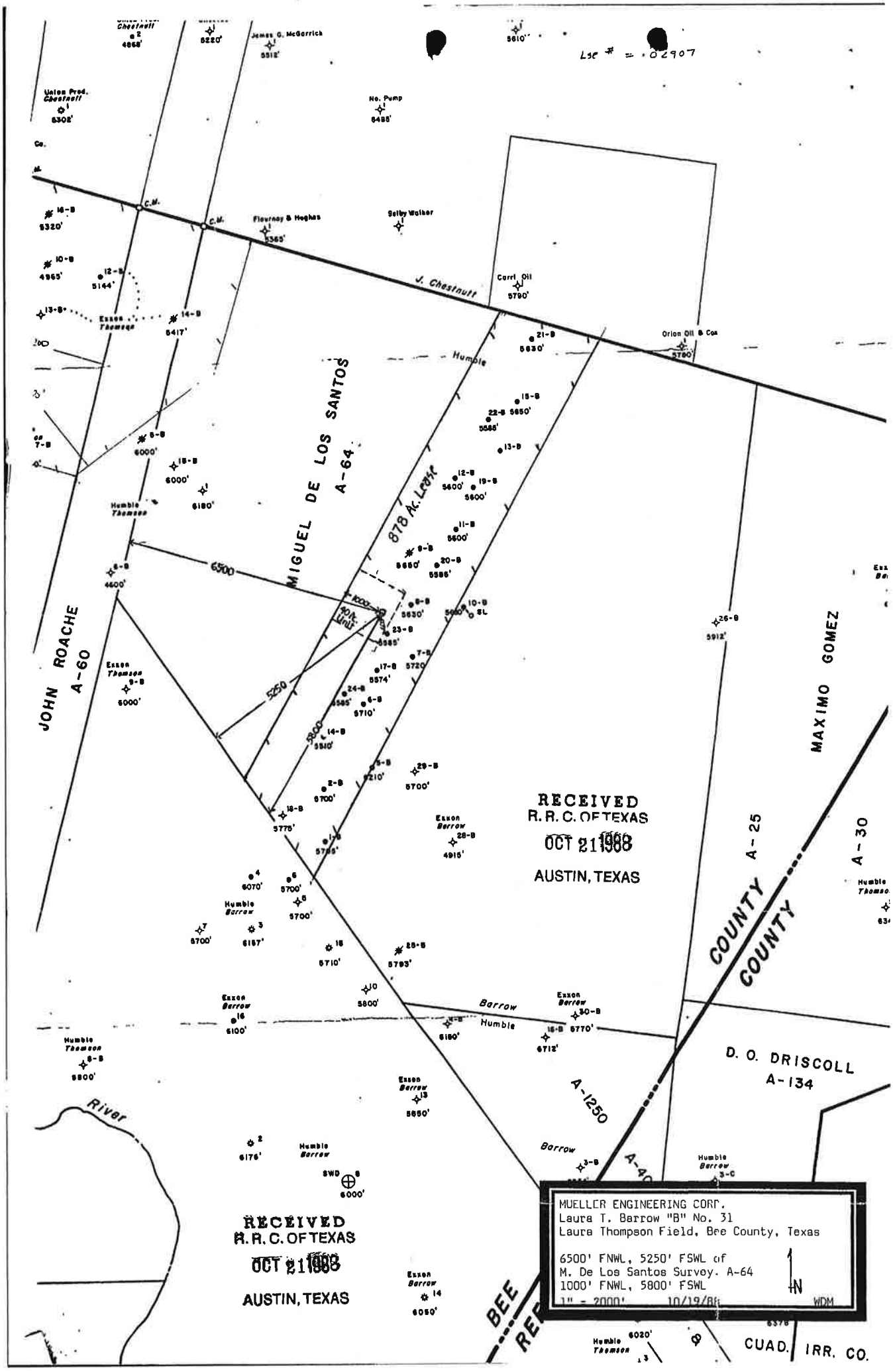
Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge

Jean Bogard — Signature
Jean Bogard, Agent — Name and title of operator's representative
10/19/88 — Date: mo day yr.
(512) 883- 1911 — Tel Area Code Number

• RRC Use Only •

202866 OCT 21 88



Lse # = .02907
James G. McGarrick
Union Prod. Chestnutt
No. Pump
Flournoy & Hughes
Selby Walker
J. Chestnutt
Carri Oil
Orion Oil & Cox
Humble
MIGUEL DE LOS SANTOS
A-64
878 Ac. Lease
6500
5250
5800
1000
40 Ac. Unit
JOHN ROACHE
A-60
MAXIMO GOMEZ
A-25
A-30
COUNTY
COUNTY
D. O. DRISCOLL
A-134
A-1250
A-40
Barrow
Humble
River
BEE
CUAD. IRR. CO.
RECEIVED
R.R.C. OF TEXAS
OCT 21 1988
AUSTIN, TEXAS
RECEIVED
R.R.C. OF TEXAS
OCT 21 1988
AUSTIN, TEXAS
MUELLER ENGINEERING CORP.
Laura T. Barrow "B" No. 31
Laura Thompson Field, Bee County, Texas
6500' FNWL, 5250' FSWL of
M. De Los Santos Survey. A-64
1000' FNWL, 5800' FSWL
1" = 2000'
10/19/88
WDM
N

MUELLER ENGINEERING CORP.
PETROLEUM CONSULTANTS
1010 FIRST CITY TOWER II
555 NORTH CARANCAHUA
CORPUS CHRISTI, TEXAS 78478-0501

JOSEPH P. MUELLER, P E.
PRESIDENT

TELEPHONE
(512) 883-1911

October 19, 1988

Railroad Commission of Texas
P. O. Drawer 12967, Capitol Station
William B. Travis Bldg.
Austin, Texas 78711-2967

Re: Laura T. Barrow "B" #31
Bee County, Texas

Gentlemen:

Enclosed are the completion forms indicated below for the above captioned well. In order to assure receipt of these forms, please acknowledge and return this letter in the self-addressed envelope provided.

____	G-1 (Back Pressure Test)
____	Back Pressure Curve
____	G-5 (Gas Well Classification Report)
____	G-10 (Gas Well Status Report)
____	L-1 (Electric Log Status Report)
____	P-4 (Producer's Certificate of Compliance and Authorization to Transport Oil or Gas From Lease)
____	P-12 (Certificate of Pooling Authority)
____	P-15 (Statement of Productivity of Acreage Assigned to Proration Units)
X	W-1 (Application for Permit to Drill, Deepen, Plug Back or Re-enter)
____	W-2 (Oil Well Potential Test)
____	W-10 (Oil Well Status Report)
____	W-12 (Inclination Report)
____	W-15 (Cementing Report)
X	Plat
X	Fee

RECEIVED
R.R.C. OF TEXAS
OCT 21 1988
AUSTIN, TEXAS

Very truly yours,
MUELLER ENGINEERING CORP.

By: Jean Bogard
Jean Bogard

Acknowledged: _____ Date: _____

MAP ID #76

API# 42-025-32821
DRY HOLE

(76)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

Thompson Barrow C-3

API NO. 42 025 32821 (if available)

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 170030

2. FIELD NAME (as per RRC Records): ~~Burkes Ridge~~ Wildcat

3. Lease Name: Thomson-Barrow Corp. C

5. Well Number: 3

6. OPERATOR: C&E Operating, Inc.

6a. Original Form W-1 Filed in Name of:

10. County: Bee

7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77478

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 3/27/97

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located 1155.2: 1155 Feet From SE Line and 1362 Feet From SW Line of the Thomson-Barrow Corp. Lease

12. Permit Number: 460426

9a. SECTION, BLOCK, AND SURVEY: Miguel De Los Santos A-64

9b. Distance and Direction From Nearest Town in this County: 6.3 miles NE from Papalote

13. Date Drilling Commenced: 4/6/97

16. Type Well (Oil, Gas, Dry): gas

Total Depth: 5509

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 4/13/97

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 6/1/01

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19 Cementing Date	6-1-01	6-1-01						
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2						
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1757	14						
*22. Sacks of Cement Used (each plug)	25	5						
*23 Slurry Volume Pumped (cu. ft.)	29.5	5.9						
*24. Calculated Top of Plug (ft.)	1428	3						
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. # /Gal.	15.6	15.6						
*27. Type Cement	A	A						

RECEIVED
R.R.C. OF TEXAS
JUN 10 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	636	632	12 1/4
4 1/2	10.5	5490	5486	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

RECEIVED
CENTRAL RECORDS
SEP 05 2001
AUSTIN, TEXAS

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	5372	TO	5376	FROM	TO
FROM	4315	TO	4318	FROM	TO
FROM	4167	TO	4171	FROM	TO
FROM	1571	TO	1573	FROM	TO
FROM		TO		FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

South Central Cementers
Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Bonn — REPRESENTATIVE OF COMPANY
President — TITLE
6/14/01 — DATE
Phone 361 — A/C
741-3600 — NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? Circulate

33. Mud Weight 9.5 LBS/GAL

34. Total Depth 5509

Depth of Deepest Fresh Water 1450

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well

South Central Cementers, P.O. Box 967, Beeville, Texas 78104

Date RRC District Office notified of plugging 5/31/01

38. Name(s) and Address(es) of Surface Owners of Well Site

Thomson-Barrow Corp.
5847 San Felipe, Suite 3830
Houston, Texas 77057

39. Was Notice Given Before Plugging to the Above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev 4/1/83

Type or print only

483-047

API No 42-025-32821

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7 RRC District No: 02

8 RRC Gas ID No: 170030

1 FIELD NAME (as per RRC Records or Wildcat): Wildcat

2 LEASE NAME: Thomson-Barrow Corp. "C"

9 Well No: 3

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.

RRC Operator No: 120079

10 County of well site: Bee

4. ADDRESS: 13333 S.W. Freeway, Suite 105, Sugar Land, Texas 77478

11 Purpose of filing
- Initial Potential ☐
- Retest ☐
- Reclass ☐
- Well record only (Explain in remarks) ☒

5. Location (Section, Block, and Survey): Miguel de los Santos A-64

5b Distance and direction to nearest town in this county

6. If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13 Pipe Line Connection: NA

14. Completion or recompletion date: NA

15 Any condensate on hand at time of workover or recompletion? ☐ Yes ☐ No

16 Type of Electric or other Log Run: Induction

Section I — GAS MEASUREMENT DATA

Date of Test

Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ Positive Choke ☐ Orifice Vent Meter ☐ Pitot Tube ☐ Critical-flow Prover ☐

Gas produced during test: MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp °F	Temp Factor F_{tg}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1										
2										
3										
4										

R.R.C. OF TEXAS RECEIVED JUN 25 1998 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Return to Records Retention

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_m =	Avg Shut-In Temp °F	Bottom Hole Temp °F @ (Depth)

$D_{eff}^{8/3}$ =

$\sqrt{T_f}$ = $\sqrt{\text{RECORD CODIFICATION}}$ = DEC 08 1998

$\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ =

$\frac{\sqrt{GL}}{C}$ = ——— = ———

Run No.	Time of Run Min	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In									
1									
2								/	
3									
4									

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)	Angle of Slope
Shut—In								θ .....
1								n .....
2								Absolute Open Flow
3								..... MCF/DAY
4								

WELL TESTER'S CERTIFICATION I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

Signature Well Tester | Name of Company | RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Terry L. Boemi — President — 6/24/98 — Tel (281)265-6500

Signature Operator's representative — Title — Date — A/C Number

HS

025 - 32821

VALID PERMIT

SMU

SEP 2 9 1999

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☒

18. Permit to Drill, Plug Back or Deepen — DATE 3/27/97 — PERMIT NO. 460426
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of
C&E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well
NA

21. Total number of acres in this lease
1000

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 4/6/97 Completed 5/8/97 NA

23. Distance to nearest well, Same Lease & Reservoir
NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located
1155 Feet From southeast Line and 1362 Feet from southwest Line of the Thomson-Barrow Corp. C Lease

25. Elevation (DF, RKB, RT, GR, ETC.)
121

26. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒ No

27. Top of Pay: NA
28. Total Depth: 5509
29. P. B. Depth: 4005
30. Surface Casing Determined by: Field ☐ Rules ☐ Recommendation of T.D.W.R. ☐ Railroad Commission (Special) ☒ Dt of Letter 3/31/97

31. Is well multiple completion? ☐ Yes ☒ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X; Cable Tools

34. Name of Drilling Contractor
Corpus Christi Drilling

35. Is Cementing Affidavit Attached? ☒ Yes ☐ No

36. **CASING RECORD (Report All Strings Set in Well)**

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	636	--	305 sx A	12¼	surface	548
4½	10.5	5490	1707	784 sx H	7 7/8	surface	1235

37. **LINER RECORD**

Size	TOP	Bottom	Sacks Cement	Screen

38. **TUBING RECORD**

Size	Depth Set	Packer Set
2 3/8	1491	1491

39 Producing Interval (this completion) Indicate depth of perforation or open hole

From	1571	To	1573
From		To	
From		To	
From		To	

40. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used
5372-76	Perforate 4 SPF
5114	CIBP + 20' cmt
4315-18, 4167-71	Perforate 4 SPF
4005	CIBP + 20' cmt
1571-73	Perforate 4 SPF

41. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth
Frio	2950		
Vicksburg	5445		

REMARKS Evaluating for further work

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating , Inc.	120079	02	Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Wildcat	42-025 32821	460426

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
Thompson-Barrow C			3

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		04/07/97					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		50					
14 Size of casing (in OD)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		636					
17 Number of centralizers used		6					
18 Hrs waiting on cement before drill-out		14					
1st Slurry	19 API cement used No of sacks ▶	195					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt					
2nd Slurry	No of sacks ▶	110					
	Class ▶	A					
	Additives ▶	$CaCl_2$					
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped. Volume (cu ft) ▶	408					
	Height (ft) ▶	989					
2nd	Volume (cu ft) ▶	140					
	Height (ft) ▶	339					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶	548					
	Height (ft) ▶	1328					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

T.N.R.C.C. LETTER DATED 3-27-97
Depth 1450 ft.
13(A) Exception Dated 3-31-97
Surface Casing 600 ft.
D.V. @ 1500 ft.

RECEIVED
R.R.C. OF TEXAS
JUN 25 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29 Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Bill Yeschke, Service Supervisor	BJ Services Co.	Bill Yeschke	
Name and title of cementer's representative	Cementing Company	Signature	
411-A Hartman Road	Victoria, TX 77905	512/575-6446	04/07/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data

Terry L. Boening	President	Terry L. Boening	
Typed or printed name of operator's representative	Title	Signature	
13333 S.W. Freeway, Suite 105, Sugar Land, TX 77478	(281)265-6500		
Address City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.	

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules,
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas.
Operator Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No.	4 County of Well Site
C & E OPERATING, INC.	120079	02	REFUGIO

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No.
Wildcat	42-025 32821	460426

8 Lease Name	9 Rule 37 Case No	10. Oil Lease/Gas ID No	11 Well No
THOMPSON - BARROW "C"			#3

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date						04/15/97	04/15/97
13. •Drilled hole size						7 7/8	7 7/8
•Est % wash or hole enlargement						15	15
14. Size of casing (In O.D.)						4 1/2	4 1/2
15 Top of liner (ft)							
16 Setting depth (ft)						1707	5490
17 Number of centralizers used						10	6
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used· No of sacks ▶					214	75
	Class ▶					A	H
	Additives ▶					Remarks#1	Poz,Gel,Salt
2nd Slurry	No. of sacks ▶					145	350
	Class ▶					A	H
	Additives ▶						Remarks#2
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped· Volume (cu ft.) ▶					447	157
	Height (ft) ▶					1962	689
2nd	Volume (cu. ft) ▶					171	420
	Height (ft.) ▶					751	1844
3rd	Volume (cu ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu ft) ▶					618	577
	Height (ft) ▶					2713	2533
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?						Yes	No

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SEP 11 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

#1 Poz,Gel,Salt (DV Tool Lead)

#2 Salt,FL-25,ASA-301 (Shoe Tail)

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Larry Langley/Service Supervisor — Name and title of cementer's representative
BJ Services Company — Cementing Company
Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
512-575-6446 — Tel.: Area Code Number
04/15/97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Signature

13333 SW Freeway, Suite 105, Sugar Land, TX 77478 — Address, City, State, Zip Code
(281)265-6500 — Tel.: Area Code Number
4/22/97 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office. Read Instructions on Back.

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[x] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32821 Permit No 460426 Rule 37 Case No

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
3. RRC Operator No. 120079
4. RRC District No. 02
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. "C"
7. RRC Lease/ID No.: 953535
8. Well No. 3
9. Total Depth 6000'

10. Location
- Section _____ Block _____ Survey Miguel De Los Santos Grant Abstract No. A-64
- This well is to be located 6.3 miles in a northeast direction from Papalote, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 1155' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 1000 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6000') 4001	6000	467/1200	40	40	NO	3652	O/G	3	3
Burkes Ridge (2040) 1355850	2040	467/1200	40	40	NO	3652	G		3
13600500 (2600 SAND) Burkhollow ~~(2600)~~	2600	467/1200	40	40	NO	3652	G		3

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit 1155' FSEL & 1362' FSWL
- Survey/Section ~~3838' FNWL & 5657 FSWL~~ 7350 FNL

If a directional well, show also projected bottom-hole location:
- Lease/Unit
- Survey/Section

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23. Is this a pooled unit? 3838.3 FWL Yes [ ] (Attach Form P-12 and certified plat.) No [x]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] (Attach Form W-1A) No [x]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [x] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] If not filed, explain in Remarks

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [x] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

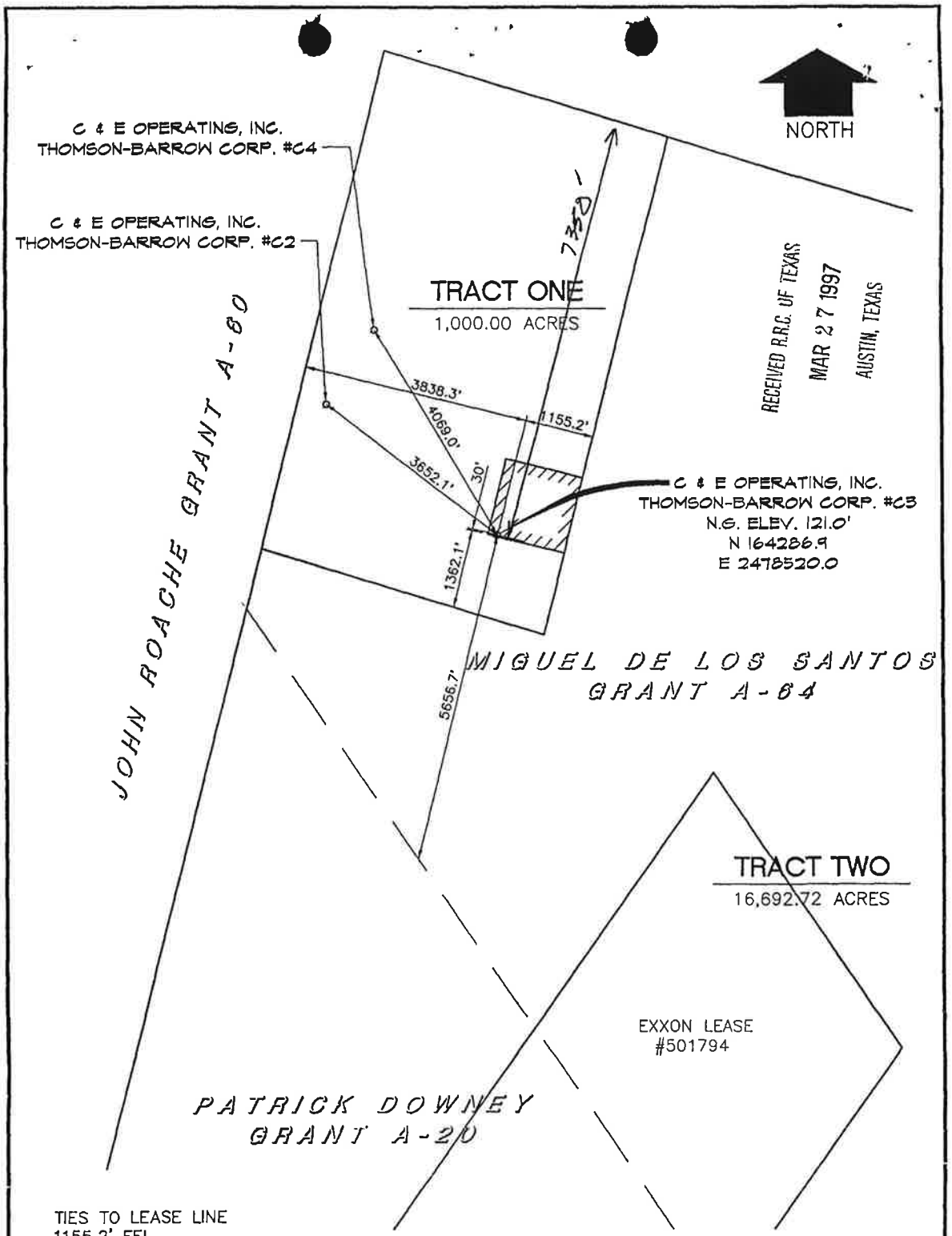
Signature: Terry L. Boening Terry L. Boening Presidnet
Name and title of operator's representative

Date: 3 26 97 (mo. day yr.) Tel.: 281 265-6500 (Area Code Number)

Rec# 35878

• RRC Use Only •
209470 MAR 2797 460426

025-32821 MAPPING



TIES TO LEASE LINE
1155.2' FEL
1392.1' FS

TIES TO SURVEY LINES
3838.3' FWL
5656.7' FSL

DISTANCE FROM NEAREST TOWN
11.5 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MARCH 21, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Richard D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

3-26-97
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C3
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

DWG. No. :	9773-502
SCALE :	1" = 2000'
DATE :	03/97
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

MAP ID #77

API# 42-025-32945
DRY HOLE

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. (If available) 42 025 32945

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number:

2. FIELD NAME (as per RRC Records): Burkes Ridge

3. Lease Name: Thomson-Barrow Corp. "C"

5. Well Number: 14

6. OPERATOR: C & E OPERATING INC.

6a. Original Form W-1 Filed in Name of:

10. County: Bee

7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, TX 77478

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 4/16/99

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 474.1 Feet From NW Line and 711.3 Feet From SW Line of the Thomson-Barrow Corp. Lease

12. Permit Number: 483794

9a. SECTION, BLOCK, AND SURVEY: Miguel DeLosSantos A-64

9b. Distance and Direction From Nearest Town in this County: 12.0 miles NW from Woodsboro

13. Date Drilling Commenced: 4/20/99

14. Type Well (Oil, Gas, Dry): Dry

Total Depth: 3000'

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 4/23/99

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 04/23/99

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	4/23	4/23	4/23	4/23				
20. Size of Hole or Pipe in which Plug Placed (inches)	7 7/8	7 7/8	8-5/8,7-7/8	8 5/8				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1250	1000	466	13				
*22. Sacks of Cement Used (each plug)	35	30	30	5				
*23. Slurry Volume Pumped (cu. ft.)	42	36	36	12				
*24. Calculated Top of Plug (ft.)	1150	900	366	3				
25. Measured Top of Plug (if tagged) (ft.)	1145							
*26. Slurry Wt. #/Gal.	15.6	15.6	15.6					
*27. Type Cement	A	A	A	H				

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R.R.C. OF TEXAS
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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
85/8	24	420	416	12 1/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

WATER BOARD LETTER DATED 4/13/99

Depth 120' ft.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

T3(A) Exception Dated 4/19/99

Surface Casing 400' ft.

O. V. ft.

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

BJ-Service

Name of Cementing Company: BJ SERVICES COMPANY

RECORD CODIFICATION

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

NOV 21 1999

Return to Records Retention

Terry L. Boening President 5/3/99 Phone (361) 741-3600

REPRESENTATIVE OF COMPANY — TITLE — DATE — A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING

025 32945

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? Circ.

33. Mud Weight 9.8 LBS/GAL

34. Total Depth 3000

Depth of Deepest Fresh Water 1200

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	950

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [ ] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: BJ Services Company, 411 Hartman Road, Victoria, TX 77905

Date RRC District Office notified of plugging

38. Name and Address of Surface Owners of Well Site:

Thomson-Barrow Corp.
5847 San Felipe
Suite 3830
Houston, TX 77057

39. Was Notice Given Before Plugging to the Above? Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

Cementer: Fill in shaded areas
Operator: Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4 1-83
483-005

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E OPERATING, INC.	120079	02	BEE

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Burkes Ridge	42- 025 32945	483794

8 Lease Name	9 Rule 37 Case No	10 Oil Lease Gas ID No	11 Well No
THOMSON-BARROW CORP. "C"			14

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		04/21/99					
13 *Drilled hole size		12 1/4					
*Est % wash or hole enlargement		30					
14 Size of casing (in O.D.)		8 5/8					
15 Top of liner (ft.)							
16 Setting depth (ft.)		420					
17 Number of centralizers used		5					
18 Hrs. waiting on cement before drill out		12					
1st Slurry	19 API cement used - No. of sacks ▶	65					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt					
2nd Slurry	No. of sacks ▶	120					
	Class ▶	A					
	Additives ▶	CaC12					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped - Volume (cu. ft.) ▶	145					
	Height (ft.) ▶	351					
2nd	Volume (cu. ft.) ▶	144					
	Height (ft.) ▶	349					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	289					
	Height (ft.) ▶	700					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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R.R.C. OF TEXAS
MAY 07 1999
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

RECEIVED
R.R.C. OF TEXAS
MAY 11 1999
AUSTIN, TEXAS

22 Remarks

OVER ▶

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

EXPEDITE

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office. Read Instructions on Back.

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW
0-2000' $100, 2001'-4000' $125, 4001' WILDCAT $150, 8001 or deeper $200

Form W-1
Rev. 3/89

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32945 Permit No. 483794 Area

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
Rule 37 Case No.:

2. Address (including city and zip code): 345 Commerce Green Blvd. Sugar Land, TX 77478
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. C
7. RRC Lease/ID No.:
8. Well No.: 14
9. Total Depth: 3200

10. Location
• Section _____ Block _____ Survey: Miguel DeLosSantos Abstract No. A-64
• This well is to be located 12 miles in a NW direction from Woodsboro which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 474.1 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 1000 (OUTLINE ON PLAT.)

Granted 4/16/99

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat Above 3200' (3600500)	3200	467/1200	40	40	No	NA	O/G	1	1
Burkhollow (2600 sand) (3551850)	2600	467/1200	40	40	No	1963.5	~~O~~/G	1	2
Burkes Ridge (2040)	2040	467/1200	40	40	NA	NA	~~O~~/G	1	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 474.1' ENE & 711.3' ESE FSL
• Survey/Section 474.1' ~~PNL~~ & ~~2152.8'~~ ESL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] (Attach Form P-12 and certified plat.) No [X]
FS1yWL 1027.7 F ~~NEW~~ SWL

24. Is Item 17 less than Item 16 (substandard acreage) for any field applied for? Yes [ ] (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] If not filed, explain in Remarks.

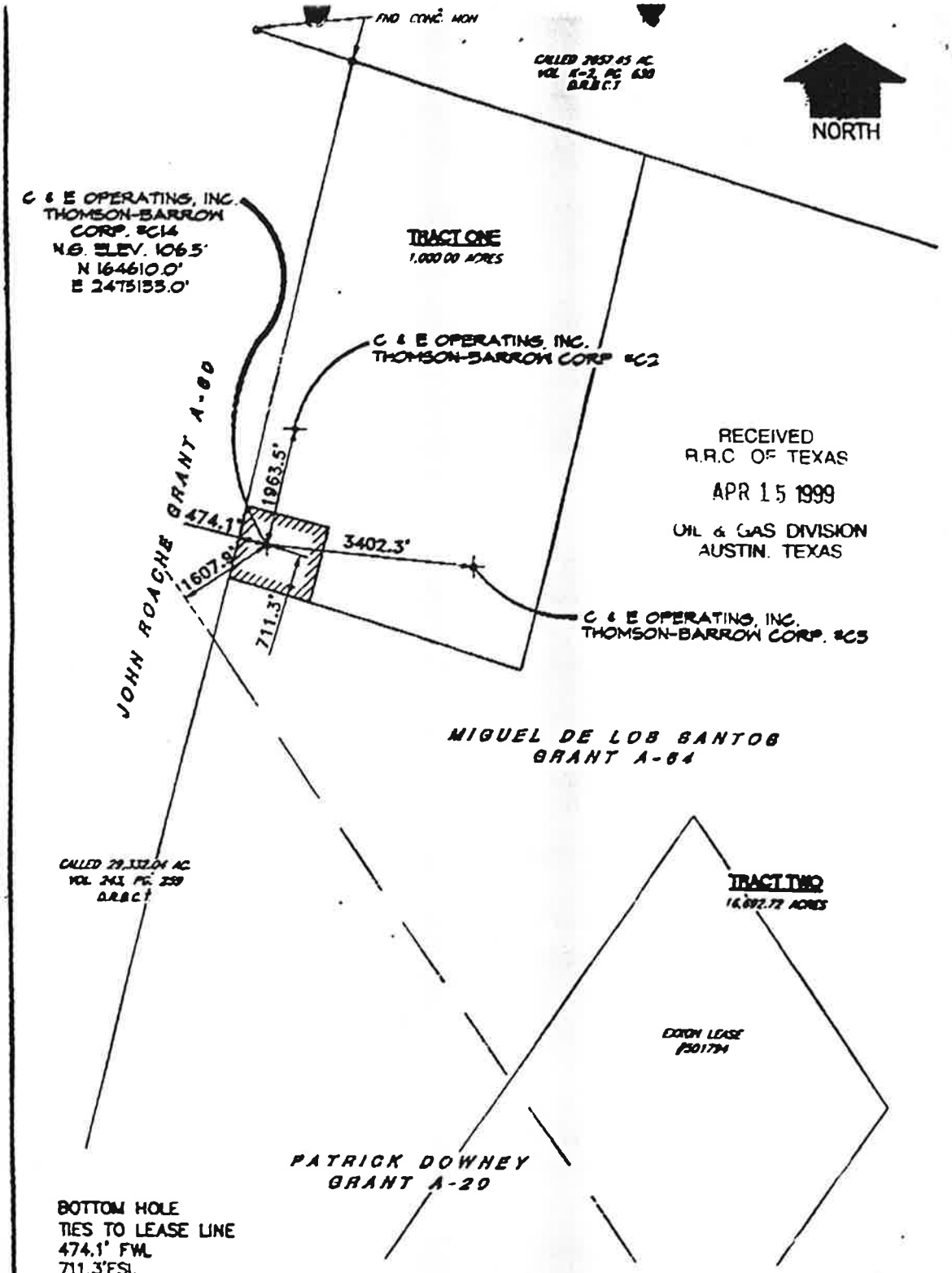
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see instructions for Rule 37. Yes [X] No [ ]

Remarks
Please Expedite $125 + $50 = $175
125 paid 4/9/99
50 paid 4/9/99

I certify that information stated in this application is true and complete, to the best of my knowledge.
Terry L. Boening, Terry L. Boening, President
Signature Name and title of operator's representative
4/9/99 (361)741-3600
Date: mo. day yr. Tel.: Area Code Number

• RRC Use Only •
206499 APR 1299
483794

025-32945



RECEIVED
R.R.C OF TEXAS
APR 15 1999
OIL & GAS DIVISION
AUSTIN, TEXAS

BOTTOM HOLE
TIES TO LEASE LINE
474.1' FWL
711.3'FSL

TIES TO SURVEY LINES
474.1' FWL
1607.9' F EXTENDED SL

DISTANCE FROM NEAREST TOWN
12 MILES NW OF WOODSBORO

I, MICHAEL D STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MARCH 30, 1999 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D Stridde 4-14-99
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE N.A.D 27

WELL LOCATION		
C & E OPERATING, INC. THOMSON-BARROW CORP. #C14 MIGUEL DE LOS SANTOS GRANT, A-64 BEE COUNTY, TEXAS	SCALE 1" = 2000' DATE 3/99	GOVIND & ASSOCIATES, INC. CORPUS CHRISTI TX • CONSULTING ENGINEERS • (512)289-1385

MAP ID #78

API# 42-025-32843
GAS WELL
PLUGGED

Thompson Barrow Corp #13

(78)

Plugging Record

ORIGINAL

RECEIVED
R.R.C. OF TEXAS
NOV 23 2004
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev 12/92 (99)

API No. (if available)	1 RRC District
42- 025 32843	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or ID Number: 165524

2 FIELD NAME (as per RRC records): Burkhollow (2600 Sand)	3 Lease Name: Thomson-Barros Corp.	5 Well Number: 13
6 OPERATOR: C & E Operating, Inc.	6a. Original Form W-1 filed in name of:	10. County: Bee
7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77478	6b. Any subsequent W-1's filed in name of:	11. Date Drilling Permit Issued: 8/26/97
8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 969.0 feet from east line and 7797.0 feet from north line of the Thomson-Barrow Corp. lease		12. Permit Number: 466731
9a. SECTION, BLOCK and SURVEY: John Roache A-60	9b. Distance and direction from nearest town in this county: 8.9 miles NE from Skidmore	13. Date Drilling Commenced: 9/15/97
16 Type Well (oil, gas, or dry): Gas; Total Depth: 3209; If multiple completion list all field names and oil lease or gas id no.'s; Gas ID or Oil Lease #; Oil - O Gas - G; Well #		14. Date Drilling Completed: 9/19/97
18. If gas, amt. of cond. on hand at time of plugging		15. Date Well Plugged: 10/11/04

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	10-11-04							
20 Size of Hole or Pipe in which Plug Placed (inches)	2 7/8							
21 Depth to Bottom of Tubing or Drill Pipe (ft.)	1792							
*22 Sacks of Cement Used (each plug)	70							
*23 Slurry Volume Pumped (cu. ft.)	82.6							
*24 Calculated Top of Plug (ft.)	3							
25 Measured Top of Plug (if tagged) (ft.)								
*26 Slurry Wt. # / Gal.	15.6							
*27 Type Cement	17							

CENTRAL RECORDS
FEB 09 2005
AUSTIN, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	325	321	12 1/4
2 7/8	6.5	3006	3002	7 7/8

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
2793	2797		
2411	2416		
2286	2289		

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Signature of Cementer or Authorized Representative

South Central Cementers
Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Carol Boning — REPRESENTATIVE OF COMPANY

Office Manager — TITLE

11/9/04 — DATE

PHONE 361 741-3600 — A/C NUMBER

SIGNATURE REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? ☐ Yes ☒ No

32. How was mud applied? filled w/ cement

33. Mud Weight -- LBS/GAL

34. Total Depth 3209

Depth of Deepest Fresh Water 1400

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☒ Yes ☐ No

36. If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well
South Central Cementers, P.O. Box 967, Beeville, Texas 78104

Date RRC District Office notified of plugging 10/7/04

38. Name(s) and address(es) of surface owners of well site
Thomson-Barrow Corp.
6363 Woodway, Suite 630
Houston, Texas 77057

39. Was notice given before plugging to the above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *
File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

Type or print only

RECEIVED R.R.C. OF TEXAS OCT 10 1997 GAS DIVISION SAN ANTONIO, TEXAS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42-025-32843

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7. RRC District No.: 2
8. RRC Gas ID No.: 165524
9. Well No.: 13
10. County of well site: ~~Refugio~~ Bee
11. Purpose of filing: Initial Potential [*] ; Retest [ ] ; Reclass [ ] ; Well record only (Explain in remarks) [ ]

1. FIELD NAME (as per RRC Records or Wildcat): Burkhollow (2600 SAND)
2. LEASE NAME: Thomson Barrow Corp.
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
RRC Operator No.: 120079
4. ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478
5. Location (Section, Block, and Survey): James Roache A-60
5b. Distance and direction to nearest town in this county.: 8.9 miles NE From Skidmore
6. If operator has changed within last 60 days, name former operator
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #
13. Pipe Line Connection: NGPL
14. Completion or recompletion date: 10/2/97
15. Any condensate on hand at time of workover or recompletion? [ ] Yes [ ] No
16. Type of Electric or other Log Run.: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 10/2/97
Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] ; Positive Choke [X] ; Orifice Vent Meter [ ] ; Pitot Tube [ ] ; Critical-flow Prover [ ]
Gas produced during test: 60 MCF

Run No	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		9/64	0.444	1015		80.0	0.9813	1.0351	1.0676	489
2		8/64	0.347	1035		80.0	0.9813	1.0351	1.0689	390
3		7/64	0.287	1045		80.0	0.9813	1.0351	1.0695	326
4		6/64	0.203	1055		80.0	0.9813	1.0351	1.0701	233

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas): 0.560
Gravity Liquid Hydrocarbon: Deg. API
Gas-Liquid Hydro Ratio: CF/Bbl
Gravity of Mixture G_{mix} = 0.560
Avg. Shut-in Temp.: 103 °F
Bottom Hole Temp.: 131 °F @ 2795 (Depth)

RECORD CODIFICATION FEB 24 1998

$D_{eff}^{8/3}$ = 10.802
$\sqrt{T_f} = \sqrt{565.500}$ = 23.780
$\sqrt{GL} = \sqrt{1565.200}$ = 39.563
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 507.855
= 0.078

Return to Records Retention

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			1120	75.0	1254				
1	60	9/64	1015	80.0	1030	38.1	1.5	1015.7	0.9993
2	60	8/64	1035	80.0	1071	30.4	0.9	1035.4	0.9996
3	60	7/64	1045	80.0	1092	26.4	0.6	1046.3	0.9997
4	60	6/64	1055	80.0	1113	18.2	0.3	1055.2	0.9999

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0521	1.1370	1.0611	1188	1411.3	
1	0.9996	0.0519	1.1288	1.0603	1077	1159.9	251.5
2	0.9998	0.0519	1.1299	1.0604	1098	1205.5	205.8
3	0.9999	0.0519	1.1304	1.0604	1108	1228.7	182.7
4	0.9999	0.0519	1.1310	1.0604	1119	1252.0	159.3

Angle of Slope
θ 45.00
n 1.0000
Absolute Open Flow: 2744 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

H. E. Van Ness — Target Well Services, Inc.
Signature: Well Tester — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Bolsinger — President — 10/8/97 — Tel. 281/ 265-6500
Signature: Operator's representative — Title — Date — A/C Number

025-32843

MAPPING

167

VALID PERMIT
PRODUCTION ALLOCATION 7B

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest) OCT 20 1997 amended

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 8/26/97 — PERMIT NO. 466731
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5,826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 9/14/97 — Completed 10/2/97

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 969 Feet From East Line and 7797 Feet from North Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 106.9'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: 2793'

28. Total Depth: 3209'

29. P. B. Depth: 2973'

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] — Dt. of Letter 8/26/97

31. Is well multiple completion? [ ] Yes [XX] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools XX — Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? [ ] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	325	-	240 sx A	12 1/4	surface	305
2 7/8"	6.5	3000	-	652 sx A	7 7/8	surface	1155

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
Tubingless		

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	2793'	To	2797'
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
2793-97'	Perf 4SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Catahoula	2850		

REMARKS

Cementer - Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3. RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7 Drilling Permit No**
Burkhollow (2600)		42-025-32843	466731
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Thomson-Barrow Corp.		165524	#13

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		09/15/97					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		25					
14 Size of casing (in OD)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		325					
17 Number of centralizers used		5					
18 Hrs waiting on cement before drill-out		14					
1st Slurry	19 API cement used No of sacks ▶	240					
	Class ▶	A					
	Additives ▶	CaCl2					
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶	305					
	Height (ft.) ▶	739					
2nd	Volume (cu ft) ▶						
	Height (ft) ▶						
3rd	Volume (cu ft) ▶						
	Height (ft.) ▶						
Total	Volume (cu ft) ▶	305					
	Height (ft) ▶	739					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

T.N.R.C.C. LETTER DATED 8-26-97
Depth 1400' ft.
13(A) Exception Dated 8-28-97
Surface Casing 320' ft.
D.V. @ ft.

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OCT 10 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Dennis R.Duderstadt,Service Suprv. — Name and title of cementer's representative

BJ Services Co. — Cementing Company

Dennis R Duderstadt — Signature

411 Hartman Road — Address

Victoria, TX 77905 — City, State, Zip Code

512/575-6446 — Tel.: Area Code Number

09/15/97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative

President — Title

Terry L. Boening — Signature

13333 Southwest Freeway, #105 — Address

Sugar Land, Texas 77478 — City, State, Zip Code

281/265-6500 — Tel.: Area Code Number

10 8 97 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer - Fill in shaded areas
Operator - Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5 Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7 Drilling Permit No**
Burkhollow (2600)		42- 025-32843	466731
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Thomson-Barrow Corp.		165524	#13

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date				9/19/97			
13 •Drilled hole size				7 7/8			
•Est % wash or hole enlargement				15			
14 Size of casing (in O D)				2 7/8			
15 Top of liner (ft)							
16 Setting depth (ft)				3000			
17 Number of centralizers used				11			
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used No of sacks ▶			360			
	Class ▶			A			
	Additives ▶			Gel,Salt,Celloflake			
2nd Slurry	No of sacks ▶			292			
	Class ▶			A			
	Additives ▶			KCL,FL-25			
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped· Volume (cu ft) ▶			803			
	Height (ft) ▶			1800			
2nd	Volume (cu ft.) ▶			350			
	Height (ft) ▶			1206			
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶			1155			
	Height (ft) ▶			3000			
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

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R.R.C. OF TEXAS
OCT 10 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

James Tuttle, Service Supervisor	BJ Services Co.		
Name and title of cementer's representative	Cementing Company	Signature	
411 Hartman Road	Victoria, TX 77905	512/575-6446	09/19/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening	President	Terry L. Boening	
Typed or printed name of operator's representative	Title	Signature	
13333 Southwest Frwy, #105	Sugar Land, Tx 77478	281/ 265-6500	10 8 97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry holes**, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Form W-1
Rev 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

▶ Address to
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P O Box 12967
Austin, Texas 78711-2967

143

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

* Expedite *

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☒ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42025-32843
▶ Permit No. 466731
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc. 10-9-91
2. Address (including city and zip code): 13333 Southwest Freeway, #105, Sugar Land, Texas 77478
953535
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 13
9. Total Depth: 3200'
10. Location
• Section _____ Block _____ Survey John Roache Grant Abstract No. A- 60
• This well is to be located 8.9 miles in a NE direction from Skidmore, which is the nearest town in the county of the well site

11. Distance from proposed location to nearest lease or unit line 969 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 3200') 4001	3200	467/1200	40	40	No	NA	G		1
Burkhollow (2600) SAND	2600	467/1200	40	40	No	NA	G		1
13600500			Code A 1200						

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 969FSEL + 7797FNEL
• Survey/Section 13670'FS (River) L & 969 FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

Code 3200

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☐
24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☐
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☐ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes ☐ No ☐ If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

Amended to include Burkhollow (2600)

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening — Signature
Terry L. Boening President — Name and title of operator's representative

Date: 10 (mo.) 7 (day) 97 (yr.) Tel.: 281/ 265-6500 (Area Code Number)

• RRC Use Only •

125 App 50 Exp 201971 OCT 1997

466731

025-32843

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

X-Y

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office

▶ Read Instructions on Back

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Expedite

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32843 ▶ Permit No. 466731 N/A

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
▶ Rule 37 Case No.

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
8-25-97
953535

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: #13
9. Total Depth: 3200'

10. Location
• Section _____ Block _____ Survey John Roache ~~Grant~~ Abstract No. A-60
• This well is to be located 8.9 miles in a NE direction from Skidmore which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 969 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 3200') 4001	3200	467/1200	40	40	No	NA	O/G	1	1
Burkes Ridge (1600) 13551 600	1600	467/1200	40	40	No	7030'	G		2
Burkes Ridge (1900) 13551 800	1900	467/1200	40	40	No	4590'	G		

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 969' FEL & 7797' FNL
• Survey/Section 969' ~~FEL~~ & 13670' ~~FSL~~ (River)

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see instructions for Rule 37. Yes [XX] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: Terry L. Boening Name and title of operator's representative: Terry L. Boening/ President

Date: 8 mo. 22 day 97 yr. Tel.: 281/ 265-6500 Area Code Number

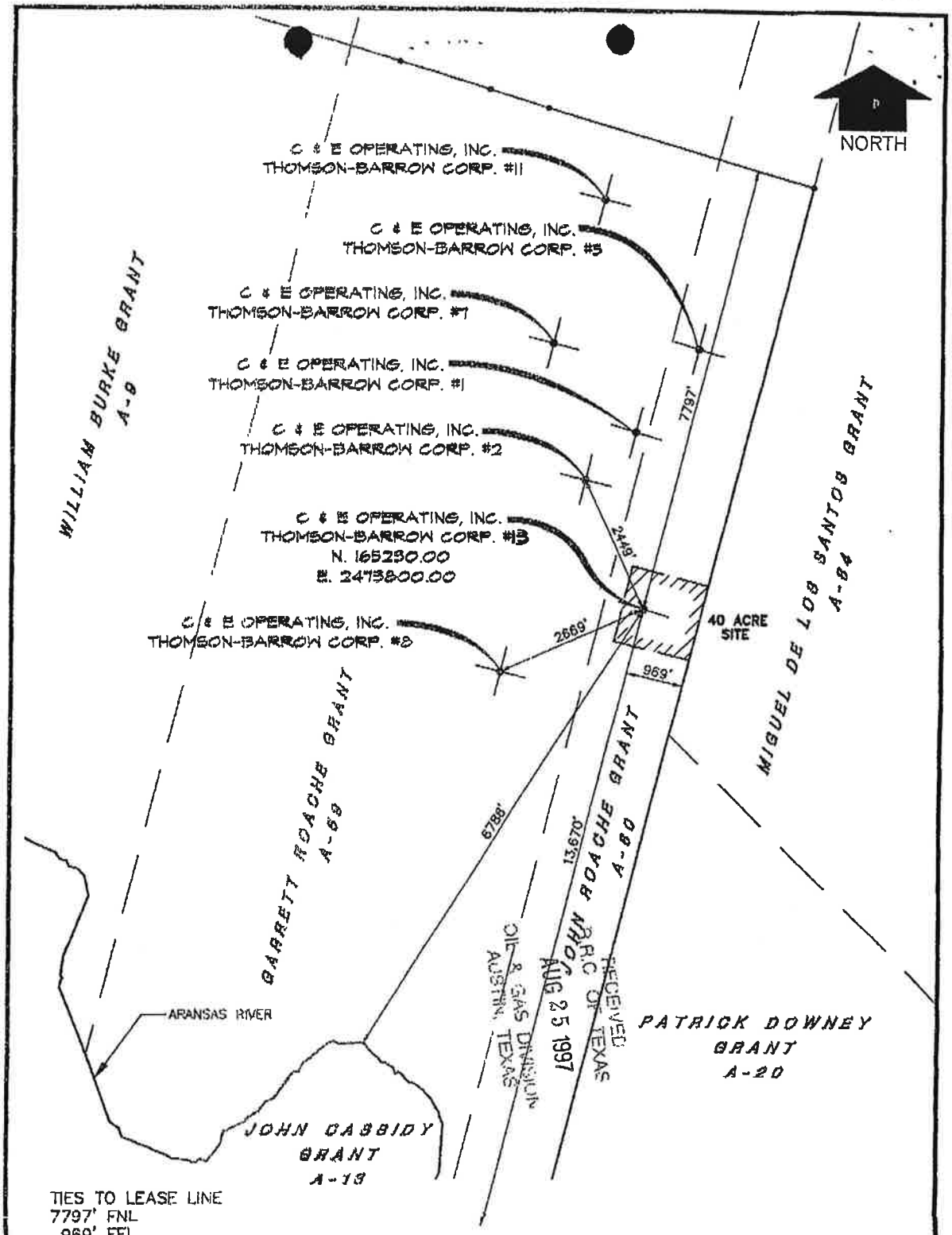
• RRC Use Only •

216362 AUG 2597
125 App 50 Exp

466731

MAPPING

025-32843



TIES TO LEASE LINE
7797' FNL
969' FEL

TIES TO SURVEY LINES
13670' FSL
969' FEL

DISTANCE FROM NEAREST TOWN
12.3 MILES W. OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
6788'

I, Mark H. Ely, do hereby certify that this plat is true and correct to the best of my knowledge and belief.

Mark H. Ely 8/22/97

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #13
JOHN ROACHE GRANT, A-80
BEE COUNTY, TEXAS

DWG No.: 9773-501
SCALE: 1" = 2000'
DATE: 8/97
DWN. BY: JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

Form W-1
Rev 3/93

▶ Return each W-1 with plat and applicable fee Make a check or money order payable to the State Treasurer of Texas

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Cont 3 * Expedite * Contionious.

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- ▶ Permit No ▶ Rule 37 Case No

1. Operator's Name (exactly as shown on Form P-5, Organization Report)	3. RRC Operator No.	4. RRC District No.	5. County of Well Site
C & E Operating, Inc.	120079	02	Bee

2. Address (including city and zip code)
13333 Southwest Freeway
Suite 105
Sugar Land, Texas 77478

6. Lease Name (32 spaces maximum)	7. RRC Lease/ID No.	8. Well No.	9. Total Depth
Thomson-Barrow Corp.		#13	3200'

10. Location
- Section _____ Block _____ Survey John Roache ~~Grant~~ Abstract No. A- 60
- This well is to be located 8.9 miles in a NE direction from Skidmore, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 969 ft.

12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Burkes Ridge E (2100) 13554700 Sd	2100	467/1200	40	40	No	NA	G		1
Burkes Ridge (2040) 13551850	2000	467/1200	40	40	No	2449	G		2

Cont D 3200

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit 969' FEL & 7797' FNL
- Survey/Section 969' ~~FEL~~ & 13670' ~~FSL (River)~~

If a directional well, show also projected bottom-hole location:
- Lease/Unit
- Survey/Section

Code H1200

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

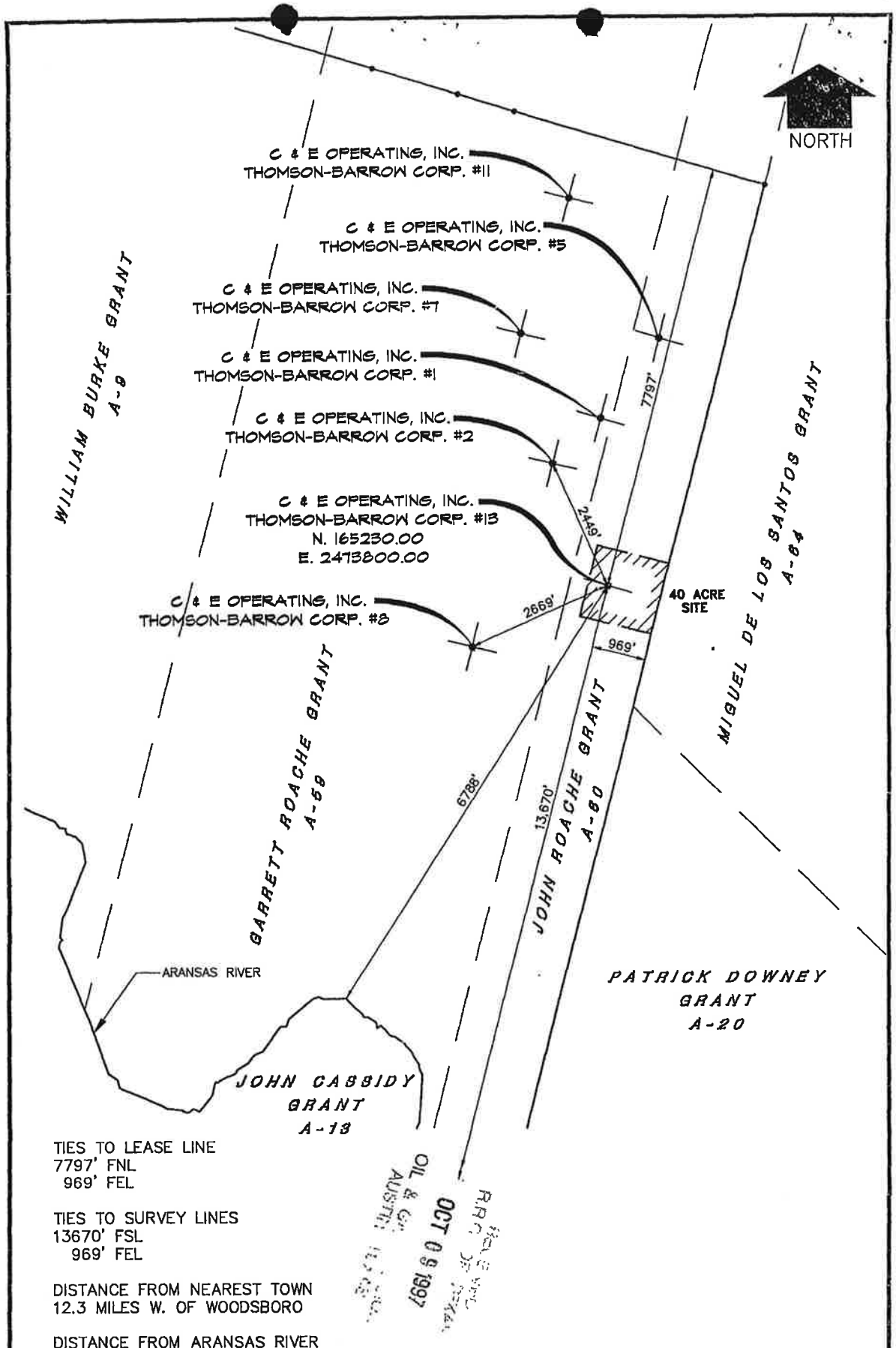
I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening Terry L. Boening/ President
Signature Name and title of operator's representative

Date: 8/22/97 mo. day yr. Tel.: 281/ 265-6500 Area Code Number

• RRC Use Only •

MAPPING



TIES TO LEASE LINE
7797' FNL
969' FEL

TIES TO SURVEY LINES
13670' FSL
969' FEL

DISTANCE FROM NEAREST TOWN
12.3 MILES W. OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
6788'

WELL LOCATION C & E OPERATING, INC. **THOMSON-BARROW CORP. #13** JOHN ROACHE GRANT, A-60 BEE COUNTY, TEXAS	DWG. No. : 9773-501 SCALE : 1" = 2000' DATE : 8/97 DWN. BY : JT	GOVIND & ASSOCIATES, INC. CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1365

MAP ID #79

API# 42-025-32789
GAS WELL
PLUGGED

(79)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev 12/92 (99)

Thomson-BARROWS #8

API No (if available)	1 RRC District
42- 025 32789	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or ID Number: 171607

2 FIELD NAME (as per RRC records)	3 Lease Name	5 Well Number
Burkes Ridge (1600)	Thomson-Barrow Corp.	8
6 OPERATOR: C&E Operating, Inc.	6a Original Form W-1 filed in name of	10 County: Bee
7 ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77478	6b Any subsequent W-1's filed in name of	11 Date Drilling Permit Issued: 11/12/98
8 Location of well, relative to nearest lease boundaries of lease on which this well is located 3365'	9278 feet from NE line and 3365 feet from SE line of the Thomson-Barrow Corp. lease	12 Permit Number: 480569
9a SECTION, BLOCK and SURVEY: Garrett Roache A-59	9b Distance and direction from nearest town in this county: 14.0 miles NW from Woodsboro	13 Date Drilling Commenced: 11/16/96
16 Type Well (oil, gas, or dry): gas; Total Depth: 5259; If multiple completion list all field names and oil lease or gas id no 's; Gas ID or Oil Lease #; Oil - O Gas - G; Well #		14 Date Drilling Completed: 11/23/96
18 If gas, amt of cond on hand at time of plugging		15 Date Well Plugged: 5/31/01

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19 Cementing Date	5-31-01	5-31-01	5-31-01					
20 Size of Hole or Pipe in which Plug Placed (inches)	4½	4½	4½					
21 Depth to Bottom of Tubing or Drill Pipe (ft)	1475	1300	14					
*22 Sacks of Cement Used (each plug)	12	30	5					
*23 Slurry Volume Pumped (cu ft)	14.14	35.4	5.9					
*24 Calculated Top of Plug (ft)	1317	1200	4					
25 Measured Top of Plug (if tagged) (ft)								
*26 Slurry Wt #/Gal	15.6	15.6	15.6					
*27 Type Cement	"A"	"A"	"A"					

RECEIVED
R.R.C. OF TEXAS
JUN 19 2001
OIL & GAS DIVISION
CORPUS CHRISTI, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	632	628	12¼
4½	10.5	4842	4838	7 7/8

29 Was any non-drillable material (other than casing) left in this well? ☐ Yes ☐ No

29a If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material (Use reverse side of form if more space is needed)

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4704	TO	4707	FROM		TO	
FROM	4366	TO	4368	FROM		TO	
FROM	1303	TO	1305	FROM		TO	
FROM		TO		FROM		TO	
FROM		TO		FROM		TO	

RECEIVED
CENTRAL RECORDS
SEP 05 2001
AUSTIN, TEXAS

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator

Signature of Cementer or Authorized Representative

South Central Cementers
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Terry L. Barrow
REPRESENTATIVE OF COMPANY

President
TITLE

6/14/01
DATE

PHONE 361 A/C 741-3600 NUMBER

SIGNATURE REPRESENTATIVE OF RAILROAD COMMISSION

178

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? [X] Yes [ ] No

32. How was mud applied? Circulate

33. Mud Weight 9.5 LBS/GAL

34. Total Depth 5259
Depth of Deepest Fresh Water 1400

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all abandoned wells on this lease been plugged according to R R C Rules? [X] Yes [ ] No

36. If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well
South Central Cementers, P.O. Box 967, Beeville, Texas 78104

Date RRC District Office notified of plugging 5/30/01

38. Name(s) and address(es) of surface owners of well site
Thomson-Barrow Corp.
5847 San Felipe, Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:
[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed.

42. Amount of oil produced prior to plugging _____ bbls *
File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

Type or print only

RECEIVED R.R.C. OF TEXAS DEC 08 1998 GAS DIVISION SAN ANTONIO, TEXAS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

485-047

API No. 42-025 32789

7. RRC District No. 2

8. RRC Gas ID No. 171607

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

RECEIVED R.R.C. OF TEXAS DEC 08 1998 SAN ANTONIO GAS DIVISION TEXAS

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (1600)

2. LEASE NAME: THOMSON-BARROW CORP.

9. Well No. 8

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E OPERATING, INC.

RRC Operator No. 120019

10. County of well site: REFUGIO

4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, TX 77478

11. Purpose of filing
- Initial Potential [*]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): Garrett Roache A-59

5b. Distance and direction to nearest town in this county: 14 miles NW from Woodsboro

6. If operator has changed within last 60 days, name former operator:

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Laura Thomson (4700)	161585	G	8

13. Pipe Line Connection: NGPL

14. Completion or recompletion date: 11/1/98

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16. Type of Electric or other Log Run: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 11/2/98

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] | Positive Choke [X] | Orifice Vent Meter [ ] | Pitot Tube [ ] | Critical-flow Prover [ ]

Gas produced during test: 20 MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		8/64	0.347	420		80.0	0.9813	1.0305	1.0285	152
2		7/64	0.287	450		80.0	0.9813	1.0305	1.0306	135
3		6/64	0.203	490		80.0	0.9813	1.0305	1.0334	104
4		5/64	0.145	530		80.0	0.9813	1.0305	1.0361	81

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix} =	Avg Shut-in Temp. °F	Bottom Hole Temp.
0.565			0.565	88	101 °F @ 1304 (Depth)

$D_{eff}^{8/3}$ = 6.307

$\sqrt{T_f} = \sqrt{555.500} =$ 23.569

$\sqrt{GL} = \sqrt{736.760} =$ 27.143

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} =$ 299.190

$\frac{\sqrt{GL}}{C} =$ 0.091

RECORD CODIFICATION APR 01 1999

Run No.	Time of Run Min	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			560	75.0	314				
1	60	8/64	420	90.0	176	13.8	0.2	420.2	0.9995
2	60	7/64	450	90.0	203	12.2	0.2	450.2	0.9996
3	60	6/64	490	90.0	240	9.4	0.1	490.1	0.9998
4	60	5/64	530	90.0	281	7.3	0.1	530.1	0.9999

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0252	1.0771	1.0275	575	330.6	
1	0.9997	0.0249	1.0640	1.0268	431	186.2	144.4
2	0.9998	0.0249	1.0660	1.0269	462	213.7	116.9
3	0.9999	0.0249	1.0686	1.0269	503	253.3	77.3
4	1.0000	0.0249	1.0713	1.0270	544	296.3	34.3

Angle of Slope
θ 63.50
n 0.4986

Absolute Open Flow
230 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Heather Richards — Target Well Services, Inc.
Signature Well Tester — Name of Company — RRC Representative

Records Retention

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Sherry L. Benning — President — 12/7/98 — Tel: (512)741-3600
Signature Operator's representative — Title — Date — A/C Number

169

VALID PERMIT smc

DEC 30 1998

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

18. Permit to Drill, Plug Back or Deepen — DATE 11/12/98 — PERMIT NO. 480569

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C&E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 4

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 10/15/98 — Completed 10/17/98

23. Distance to nearest well, Same Lease & Reservoir: 4554'

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 9278 Feet From NE Line and 3365 Feet from SE Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 103.3'

26. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒ No

27. Top of Pay	28. Total Depth	29. P. B. Depth	30. Surface Casing Determined by:
1303'	5259'	4280'	Field Rules ☐ / Recommendation of T.D.W.R. ☐ / Railroad Commission (Special) ☐ — Dt. of Letter — Dt. of Letter

31. Is well multiple completion? ☐ Yes ☒ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools | Cable Tools

34. Name of Drilling Contractor

35. Is Cementing Affidavit Attached? ☐ Yes ☒ No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	1250	1250

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1303	To	1305
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4300-4280'	CIBP + 20' cement
1303-1305	Perforate 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS

EXPEDITE

Form W-1
Rev. 9/1/91

▶ Return each W-1 with plat, applicable fee, and "W-1 Compliance Certificate" (W-1c) Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☒ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- 025 32789 ▶ Permit No. 480569

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
▶ Rule 37 Case No.

2. Address (including city and zip code): 345 Commerce Green Blvd. Sugar Land, TX 77478 943730
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 8
9. Total Depth: 5259

10. Location
• Section _____ Block _____ Survey Garrett Roache Abstract No. A-59
• This well is to be located 14 miles in a NW direction from Woodsboro which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 3365 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 5259) 4001	5200	467/1200	40	40	No	NA	O/G	1	1
Burkes Ridge (1600)	1600	467/1200	40	40	No	~~4759'~~	G		4
1355160		Code A	1208						

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 9278' FNEL & 3365' FSEL
• Survey/Section 7303' FSB (River) & 1723' FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

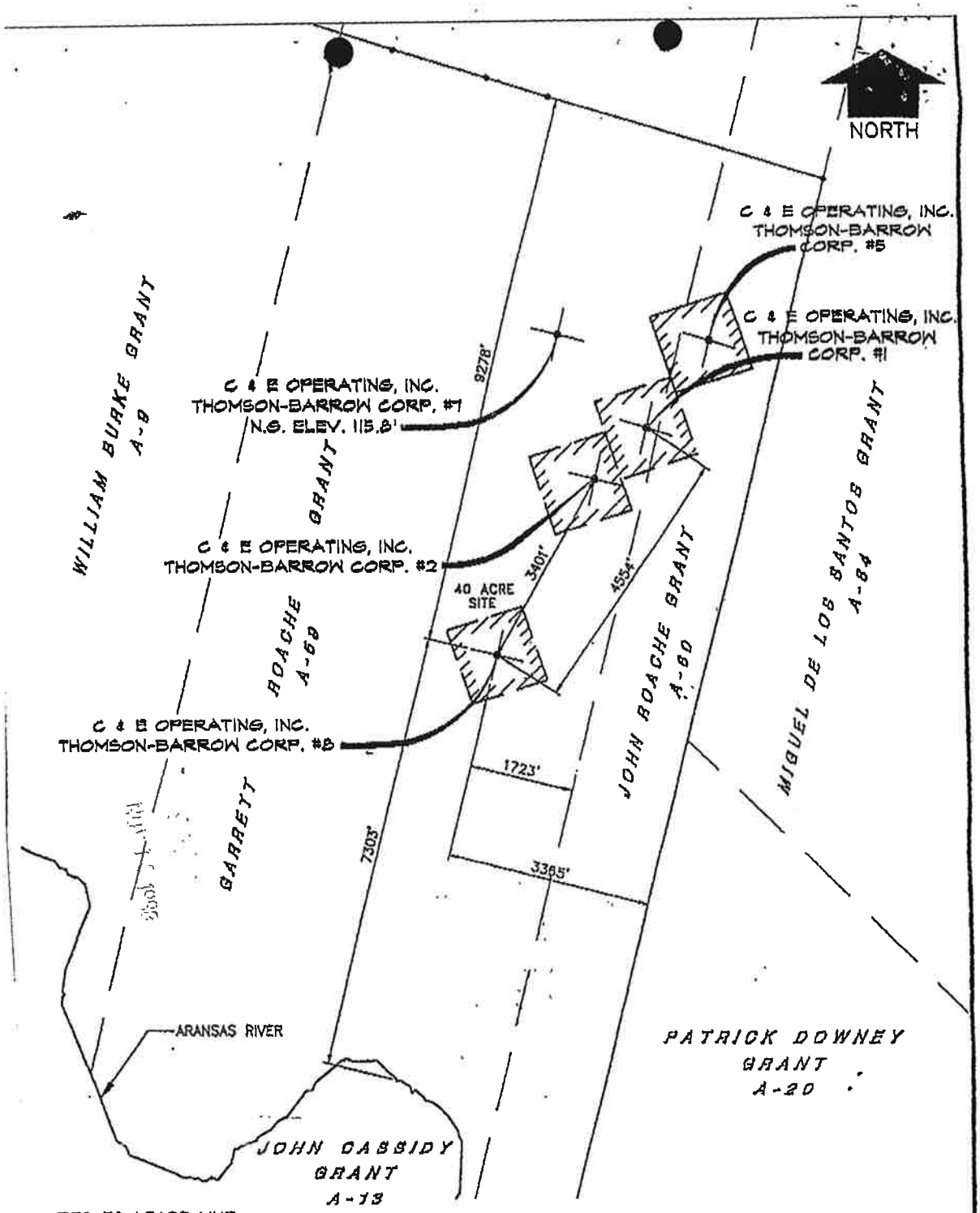
Remarks
Please Expedite $150 + $50 = $200

I certify that information stated in this application is true and complete, to the best of my knowledge.
Terry L. Boening Terry L. Boening, President
Signature Name and title of operator's representative
10/29/98 (512)741-3600
Date: mo. day yr. Tel.: Area Code Number

150.00 app
50.00 app

• RRC Use Only •
202076 OCT 3098 ✓ 480569

025-32789



TIES TO LEASE LINE
9278' FNL
3365' FEL

TIES TO SURVEY LINES
7303' FSL
1723' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
7071'

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #8
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG. No. :	9573-500
SCALE :	1" = 2000'
DATE :	9/98
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

EXPEDITE

▶ Return each W-1 with plat, applicable fee, and "W-1 Compliance Certificate" (W-1c) Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev. 9/1/91

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☒ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- 025 32789 ▶ Permit No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
▶ Rule 37 Case No.

2. Address (including city and zip code): 345 Commerce Green Blvd. Sugar Land, Texas 77478

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: 8
9. Total Depth: 5259

10. Location
• Section _____ Block _____ Survey Garrett Roache Abstract No. A- 59
• This well is to be located 14 miles in a NW direction from Woodsboro which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 3365 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 5259)	5200	467/1200	40	40	No	NA	O/G	1	1
Burkes Ridge (1600)	1600	467/1200	40	40	No	4554'	G		4

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 9278' FNEL & 3365' FSEL
• Survey/Section 7303' FSL (River) & 1723' FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____

RECEIVED

23. Is this a pooled unit?
Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
Yes ☐ ▶ (Attach Form W-1A) No ☒

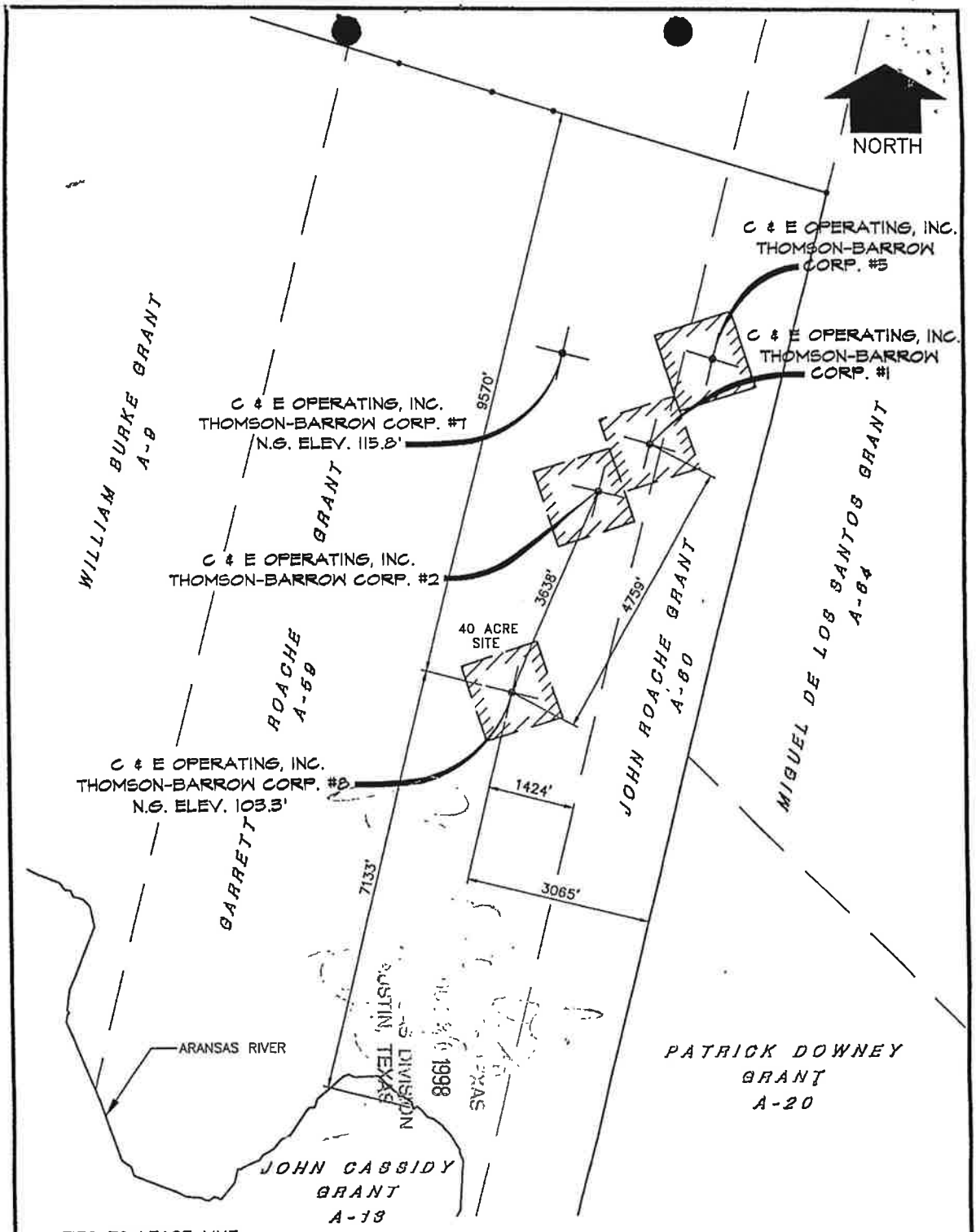
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒
If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

Remarks
$200 sent 10/29/98
Amended to show correct location

I certify that information stated in this application is true and complete, to the best of my knowledge.
Signature: Terry L. Boening
Terry L. Boening, President
Name and title of operator's representative
Date: 10/29/98 (mo. day yr.)
Tel.: (512)741-3600 (Area Code Number)

• RRC Use Only •



TIES TO LEASE LINE
9570' FNL
3065' FEL

TIES TO SURVEY LINES
7133' FSL
1424' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
6787'

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON OCTOBER 8, 1996 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

10-14-96
DATE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #8
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG. No. :	9673-500
SCALE :	1" = 2000'
DATE :	10/96
DWN. BY :	JT

GOVINDAN & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42- 025-32789

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

RECEIVED
R.R.C. OF TEXAS
MAY 21 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

7. RRC District No.: 2
8. RRC Gas ID No.: 161585
9. Well No.: 8
10. County of well site: Bee

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4700)
2. LEASE NAME: Thomson-Barrow Corp
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
RRC Operator No.: 120079
4. ADDRESS: Suite 105, 13333 Southwest Freeway, Sugar Land, Texas 77478-3545
5. Location (Section, Block, and Survey): Garrett Roache Grant A-59
5b. Distance and direction to nearest town in this county.: 14 miles NW of Woodsboro
6. If operator has changed within last 60 days, name former operator:
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.
FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil-O Gas-G | WELL #
13. Pipe Line Connection: NGPL
14. Completion or recompletion date: 12/6/96
15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☒ No
16. Type of Electric or other Log Run.: Induction

11. Purpose of filing
Initial Potential ☐
Retest ☐
Reclass ☐
Well record only ☒ (Explain in remarks)

Section I — GAS MEASUREMENT DATA

Date of Test: 12/09/96
Gas Measurement Method (Check One): Orifice Meter ☐ Flange Taps ☐ Pipe Taps ☐ Positive Choke ☒ Orifice Vent Meter ☐ Pitot Tube ☐ Critical-flow Prover ☐
Gas produced during test: 102 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		10/64	.553	1321		80	.9813	1.0016	1.087	780
2		9/64	.444	1428		80	.9813	1.0016	1.093	681
3		8/64	.347	1496		80	.9813	1.0016	1.097	560
4		7/64	.261	1525		80	.9813	1.0016	1.097	429

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.598	——— Deg. API	DRY CF/Bbl	G_{mix} = .598	121 °F	168 °F @ 4706 (Depth)

$D_{eff}^{8/3} = 6.310$

$\sqrt{T_f} = \sqrt{584} = 24.17$

$\sqrt{GL} = \sqrt{2814.19} = 53.05$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = 1118 \times 6.310 / 24.17 = 291.87$

$\frac{\sqrt{GL}}{C} = 53.05 / 291.87 = .1818$

RECORD CODIFICATION
JUL 24 1997

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_W	Wellhead Flow Temp. F°	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In	24 Hrs		1605	74					
1	60	10/64	1321	80	1745	141.8	20.1	1329	.9940
2	60	9/64	1428	80	2039	123.8	15.3	1433	.9965
3	60	8/64	1496	80	2238	101.8	10.4	1499	.9980
4	60	7/64	1525	80	2326	78.0	6.1	1527	.9987

Run No.	F	K	$S = \frac{I}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		.0908	1.1741	1.1125	1786	3190	
1	.9970	.0901	1.1478	1.1090	1474	2173	1017
2	.9983	.0902	1.1567	1.1100	1591	2531	659
3	.9990	.0903	1.1619	1.1106	1665	2772	418
4	.9994	.0903	1.1641	1.1108	1696	2876	314

Angle of Slope
θ 63.10...
n ..5078...
Absolute Open Flow
...1394... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature Well Tester | Name of Company | RRC Representative

Return to Records Retention

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Bolsweg — President — 5/19/97 — 281/ 265-6500
Signature: Operator's Representative | Title | Date | A/C Number

MAPPING

OK fmc

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [xx] Deepening [ ] Plug Back [ ] Other [ ]

RECEIVED R.R.C. OF TEXAS MAY 21 1997 OIL & GAS DIVISION SAN ANTONIO, TEXAS

18. Permit to Drill, Plug Back or Deepen — DATE 10/17/96 — PERMIT NO 453290
Rule 37 Exception — CASE NO
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 11/16/96 Completed 12/6/96

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 9278 Feet From NE Line and 3365 Feet from SE Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 1106'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [x] No

27. Top of Pay: 4704' | 28. Total Depth: 5259' | 29. P. B. Depth: 4713'

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. [ ] Railroad Commission (Special) [x] Dt. of Letter 9/25/96

31. Is well multiple completion? [ ] Yes [xx] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X | Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drlg,

35. Is Cementing Affidavit Attached? [x] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	635'	NA	275 sx A	12 1/4	surface	478
4 1/2"	10.5	4842'	1526	580 sx Poz	7 7/8	surface	889

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen
		N/A		

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"		4276

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	4368'	To	4370
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4704-4701	Perforate 4 SPF
4713-4693	dump hail cmt.
4368- 70	Perforate 4SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	3010		
Vicksburg	5250		

REMARKS: Added perfs 4368- 4370

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only
483-047

52285-150

API No. 42- 025-32789 (was 025-32770)

RECEIVED R.R.C. OF TEXAS DEC 23 1996 OIL & GAS SAN ANTONIO DIVISION

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat) LAURA THOMSON (4700)	2. LEASE NAME Thomson-Barrow Corp.
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) C & E Operating, Inc.	RRC Operator No. 120079
4. ADDRESS Suite 105, 13333 Southwest Freeway, Sugar Land, Texas 77478-3545	
5. Location (Section, Block, and Survey) Garrett Roache Grant A-59	5b. Distance and direction to nearest town in this county. 14 miles NW of Woodsboro
6. If operator has changed within last 60 days, name former operator	12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil-O Gas-G / WELL #
13. Pipe Line Connection NGPL	RECORD CODIFICATION
14. Completion or recompletion date 12/6/96 JUN 0 2 1997	15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☒ No
16. Type of Electric or other Log Run. Induction	
7. RRC District No. 2	8. RRC Gas ID No. 161585
9. Well No. 8	10. County of well site Bee
11. Purpose of filing: Initial Potential ☒ / Retest ☐ / Reclass ☐ / Well record only (Explain in remarks) ☐	

Section I GAS MEASUREMENT DATA

Date of Test: 12/09/96 — Gas Measurement Method (Check One): Orifice Meter ☐ — Flange Taps ☐ — Pipe Taps ☐ — Positive Choke ☒ — Orifice Vent Meter ☐ — Pitot Tube ☐ — Critical-flow Prover ☐ — Gas produced during test: 102 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. ^oF	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		10/64	.553	1321		80	.9813	1.0016	1.087	780
2		9/64	.444	1428		80	.9813	1.0016	1.093	681
3		8/64	.347	1496		80	.9813	1.0016	1.097	560
4		7/64	.261	1525		80	.9813	1.0016	1.097	429

Section II FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
.598	----- Deg. API	DRY CF/Bbl	G_{mix} = .598	121 ^oF	168 ^oF @ 4706 (Depth)

$D_{eff}^{8/3} = 6.310$; $\sqrt{T_f} = \sqrt{584} = 24.17$; $\sqrt{GL} = \sqrt{2814.19} = 53.05$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = 1118 \times 6.310 / 24.17 = 291.87$; $\frac{\sqrt{GL}}{C} = 53.05 / 291.87 = .1818$

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_W	Wellhead Flow Temp. F^o	P_w^2 (Thousands)	R	R^2 (Thousands)	P_f	P_w / P_f
Shut-In	24 Hrs		1605	74					
1	60	10/64	1321	80	1745	141.8	20.1	1329	.9940
2	60	9/64	1428	80	2039	123.8	15.3	1433	.9965
3	60	8/64	1496	80	2238	101.8	10.4	1499	.9980
4	60	7/64	1525	80	2326	78.0	6.1	1527	.9987

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		.0908	1.1741	1.1125	1786	3190	
1	.9970	.0901	1.1478	1.1090	1474	2173	1017
2	.9983	.0902	1.1567	1.1100	1591	2531	659
3	.9990	.0903	1.1619	1.1106	1665	2772	418
4	.9994	.0903	1.1641	1.1108	1696	2876	314

Angle of Slope: θ 63.10 ... ; n .5078 ...

Absolute Open Flow: 1394 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

RECEIVED R.R.C. JAN 0 9 1997 AUSTIN, TEXAS

Signature Well Tester ____ Name of Company ____ RRC Representative ____

Return to Records Retention

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I Prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Larry L. Bobbins — President — 12/18/96 — 281/265-6500

Signature: Operator's representative — Title — Date — A/C Number

025-32789 SHIPPING

VALID PERMIT
PRODUCTION ALLOCATION
FEB 11 1997

453990

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [xx] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 10/17/96 — PERMIT NO. ~~453911~~

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 5826.49

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 11/16/96 Completed 12/6/96

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 9278 Feet From NE Line and 3365 Feet from SE Line of the Thomson-Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 106'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [x] No

27. Top of Pay: 4704' 28. Total Depth: 5259' 29. P. B. Depth: 4713'

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. [ ] Railroad Commission (Special) [x] Dt. of Letter 9/25/96 Dt. of Letter

31. Is well multiple completion? [ ] Yes [xx] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drlg,

35. Is Cementing Affidavit Attached? [x] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	635'	NA	275 sx A	12 1/4	surface	478
4 1/2"	10.5	4842'	1526	580 sx Poz	7 7/8	surface	889

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen
		N/A		

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"		4276'

39. Producing Interval (this completion) indicate depth of perforation or open hole

From	4704'	To	4707'
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4704-4701	Perforate 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	3010		
Vicksburg	5250		

REMARKS

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3. RRC District No.	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6. API No.**	**7 Drilling Permit No.**
Wildcat		42- 025-32770	454254
8 Lease Name	**9. Rule 37 Case No**	**10 Oil Lease/Gas ID No.**	**11. Well No.**
Thomson- Barrow Corp.		161585	8

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		11-17-96					
13 •Drilled hole size		12 1/4 "					
•Est % wash or hole enlargement		35					
14 Size of casing (in O D)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		635'	Change made per phonecon w/Open 12/31/96				
17 Number of centralizers used		6					
18 Hrs waiting on cement before drill-out		8					
1st Slurry	19 API cement used No of sacks ▶	165					
	Class ▶	*					
	Additives ▶	3% Salt					
2nd Slurry	No. of sacks ▶	110					
	Class ▶	Std A					
	Additives ▶	2% $CaCL_2$					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped· Volume (cu ft.) ▶	348.15					
	Height (ft.) ▶	843.50					
2nd	Volume (cu. ft.) ▶	129.8					
	Height (ft.) ▶	314.481					
3rd	Volume (cu ft.) ▶						
	Height (ft) ▶						
Total	Volume (cu. ft.) ▶	477.95					
	Height (ft) ▶	1157.981					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

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AUSTIN, TEXAS

22 Remarks

* - Modified Halliburton Light Cement Standard A = 85% Std A/15% Pozmix + 8% Gel

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Eriberto T. Villesca — Name and title of cementer's representative
Halliburton Energy Services — Cementing Company
Eriberto T. Villesca — Signature

850 Commerce — Address
Alice, Tx 78332 — City, State, Zip Code
512 664-0941 — Tel.: Area Code Number
11-17-96 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Terry L. Boening — Signature

13333 Southwest Freeway, #105 — Address
Sugar Land, Texas 77478 — City, State, Zip Code
(281) 265-6500 — Tel.: Area Code Number
12/18/96 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer, Fill in shaded areas
Operator Fill in other items.

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3. RRC District No	4 County of Well Site
C & E Operators	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)	**6 API No.**		**7 Drilling Permit No.**
Wildcat	42- 025-32770		454254
8 Lease Name	**9. Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Thomson-Barrow Corp.		16155	#8

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date						11/24/96	11/24/96
13 •Drilled hole size						7 7/8	7 7/8
•Est % wash or hole enlargement						20	20
14. Size of casing (in. O.D.)						4 1/2	4 1/2
15. Top of liner (ft.)							
16 Setting depth (ft.)						1526	4842
17 Number of centralizers used						11	8
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used: No. of sacks ▶					170	50
	Class ▶					A	H
	Additives ▶					Salt, Poz,Gel,	Poz,Gel, Salt,R-3
2nd Slurry	No of sacks ▶					160	200
	Class ▶					A	H
	Additives ▶					Neat	ASA-30, Salt,FL-25
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped. Volume (cu. ft.) ▶					355	105
	Height (ft.) ▶					1558	461
2nd	Volume (cu ft.) ▶					189	240
	Height (ft.) ▶					830	1054
3rd	Volume (cu ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu ft.) ▶					544	345
	Height (ft.) ▶					2388	1515
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?						Yes	

22 Remarks

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DEC 23 1996
OIL & GAS DIVISION
CORPUS CHRISTI, TEXAS

RECEIVED R.R.C. OF TEXAS
JAN 09 1997
AUSTIN, TEXAS

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Ronald L. Schul-Service Supervisor	BJ Services Company	
Name and title of cementer's representative	Cementing Company	Signature

411-A Hartman Road	Victoria, TX 77905	512-575-6446	11/24/96
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening	President	Terry L. Boening
Typed or printed name of operator's representative	Title	Signature

13333 Southwest Freeway, #105	Sugar Land, Texas 77478	(281) 265-6500	12/18/96
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4)

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Form W-1
Rev. 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32789
▶ Permit No. 453290
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, Texas 77478
953535

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No:
8. Well No.: 8
9. Total Depth: 5000'

10. Location
• Section _____ Block _____ Survey Garrett Roache ~~Grant~~ Abstract No. A- 59
• This well is to be located 14 miles in a NW direction from Woodsboro, Tx. which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 3365 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 5826.49 (OUTLINE ON PLAT.)

Granted 10/1/96

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat ~~(Above 5000')~~	5000'	467/1200	40	40	No	3401'	G	1	1
4001									
FNEL FSEL		Code 0 5000							

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 9278' ~~FNL~~ and 3365' ~~FEL~~
• Survey/Section 7303' ~~FSL~~ and 1723' FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? FSR FEL
Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening Terry L. Boening, President
Signature Name and title of operator's representative

09/25/96 713/265-6500
Date: mo. day yr. Tel. Area Code Number

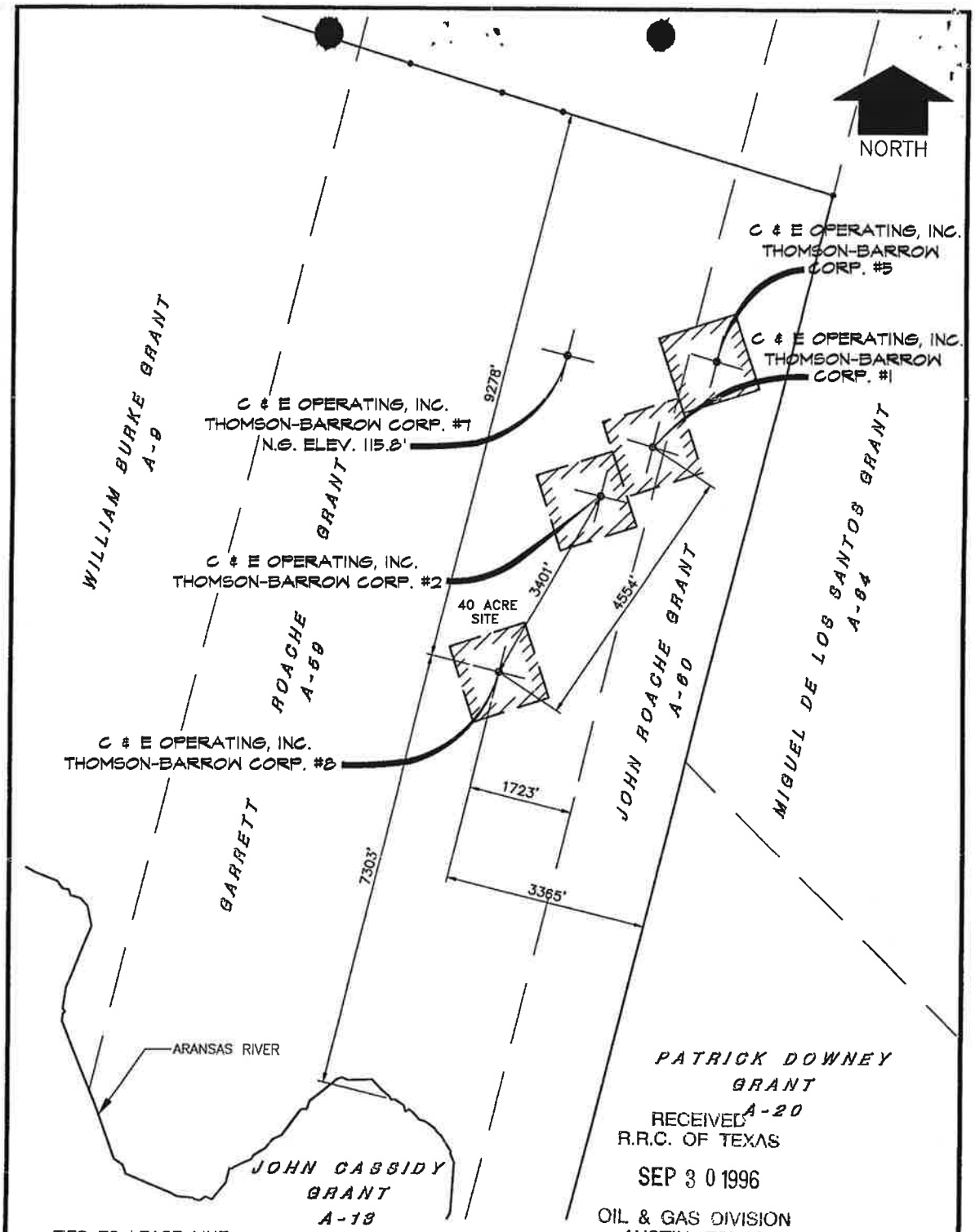
150° App
80° Ext.

• RRC Use Only •

201294 SEP 3096

453290

025-32789



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R.R.C. OF TEXAS
SEP 3 0 1996
OIL & GAS DIVISION
AUSTIN, TEXAS

TIES TO LEASE LINE
9278' FNL
3365' FEL

TIES TO SURVEY LINES
7303' FSL
1723' FEL

DISTANCE FROM NEAREST TOWN
14 MILES NW OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
7071'

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #8
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG. No. :	9673-500
SCALE :	1" = 2000'
DATE :	9/96
DWN. BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

MAP ID #80

API# 42-025-32896
DRY HOLE

(DOES NOT PENATRATE CONFINING/INJECTION ZONE)

(80)

000053 3098

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. (If available) 4202532896

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 02
4. RRC Lease or Id. Number:
2. FIELD NAME (as per RRC Records): Burkes Ridge
3. Lease Name: Thomson-Barrow Corp.
5. Well Number: 19
6. OPERATOR: C & E Operating, Inc.
6a. Original Form W-1 Filed in Name of:
10. County: Bee
7. ADDRESS: Sugar Land, TX 77478 13333 SW Freeway, Suite 105
6b. Any Subsequent W-1's Filed in Name of
11. Date Drilling Permit Issued: 5/27/98
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 1153 Feet From north Line and 5056 Feet From east Line of the Thomson-Barrow Lease
12. Permit Number: 476613
9a. SECTION, BLOCK, AND SURVEY: Garrett Roache Grant A-59
9b. Distance and Direction From Nearest Town in this County: 8.7 miles ME from Skidmore
13. Date Drilling Commenced: 6/9/98
16. Type Well (Oil, Gas, Dry): Dry
Total Depth: 2200
17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 6/11/98
18. If Gas, Amt. of Cond. on Hand at time of Plugging:
15. Date Well Plugged: 6/11/98

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	6-11-98	6-11-98	6-11-98	6-11-98				
20. Size of Hole or Pipe in which Plug Placed (inches)	7 7/8	7 7/8	7 7/8	7 7/8				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1200	945	414	13				
*22. Sacks of Cement Used (each plug)	40	35	40	10				
*23. Slurry Volume Pumped (cu. ft.)	48	42	48	12				
*24. Calculated Top of Plug (ft.)	1058	820	272	3				
25. Measured Top of Plug (if tagged) (ft.)	1100							
*26. Slurry Wt. #/Gal.	15.6	15.6	15.6	15.6				
*27. Type Cement	A	A	A	H				

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SAN ANTONIO, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	364	360	12¼
		RECORD CODIFICATION		
		AUG 20 1998		

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

Return to Records Retention

WATER BOARD LETTER DATED 5/26/98

Depth 1150 ft.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM Surface Casing	TO 350 ft.
FROM	TO	FROM D. V. @	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Tony Cano
Signature of Cementer or Authorized Representative

B.J. Services
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boening Terry L. Boening President 8/5/98 Phone 281 265-6500
REPRESENTATIVE OF COMPANY TITLE DATE A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

025-32896 MAPPING

000053099

Operator: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
C & E OPERATING, INC.	120079	02	BEE

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Burkes Ridge	42-025 32896	476613

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease Gas ID No.	11. Well No.
THOMSON-BARROW CORP.			19

CASING CEMENTING DATA		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		06/10/98					
13. *Drilled hole size		12-1/4					
*Est. % wash or hole enlargement		40					
14. Size of casing (in. O.D.)		8-5/8					
15. Top of liner (ft.)							
16. Setting depth (ft.)		350					
17. Number of centralizers used		6					
18. Hrs. waiting on cement before drill-out		12					
1st Slurry	19. API cement used: No. of sacks ▶	75					
	Class ▶	A					
	Additives ▶	Gel,Salt					
2nd Slurry	No. of sacks ▶	120					
	Class ▶	A					
	Additives ▶	CaC12					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	167					
	Height (ft.) ▶	405					
2nd	Volume (cu. ft.) ▶	144					
	Height (ft.) ▶	349					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	311					
	Height (ft.) ▶	754					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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AUG 07 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22. Remarks

25 bbls cement return

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
24. Cementing date	6-11-98	6-11-98	6-11-98	6-11-98				
24. Size of hole or pipe plugged (in.)	7 7/8	7 7/8	7 7/8	7 7/8				
25. Depth to bottom of tubing or drill pipe (ft.)	1200	945	414	13				
26. Sacks of cement used (each plug)	40	35	40	10				
27. Slurry volume pumped (cu. ft.)	48	42	48	12				
28. Calculated top of plug (ft.)	1058	820	272	3				
29. Measured top of plug, if tagged (ft.)	1100							
30. Slurry wt. (lbs/gal)	15.6	15.6	15.6	15.6				
31. Type cement	A	A	A	H				

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision; and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Tony Cano - Service Supervisor — B. J. Services — Tony Cano

Name and title of cementer's representative — Cementing Company — Signature

411 Hartman Rd. — Victoria, TX 77905 — 512 575-6446 — 6-11-98

Address — City, State, Zip Code — Tel.: Area Code Number — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — President — Terry L. Boening

Typed or printed name of operator's representative — Title — Signature

13333 SW Freeway, Suite 105, Sugar Land, TX 77478 (281)265-6500 — 8 5 98

Address — City, State, Zip Code — Tel.: Area Code Number — Date mo day yr

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for data containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

010053 3044

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001'-4000' - $125
4001'-9000' - $150, 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☒ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☐ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32896 Permit No. 476613 Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code):
13333 S,W. Frwy
Suite 105
Sugar Land, Tx 77478
053535

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp.
7. RRC Lease/ID No.:
8. Well No.: #19
9. Total Depth: 2500'

10. Location
• Section _____ Block _____ Survey Garrett Roache Abstract No. A- 59
• This well is to be located 8.7 miles in a NE direction from Skidmore
which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 5013.8 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 5826.49 (OUTLINE ON PLAT.)

Granted 5/27/98

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 2500') 4001	2500'	467/1200	40	40	No	NA	G	0	1
Burke Ridge (2040') 135518 50	2000'	467/1200	40	40	No	6075	G	0	4
Burke Ridge (1600) 135160 0	1600'	467/1200	40	40	No	7290	G	0	4

22. Perpendicular surface location from the nearest designated lines: FSEL Code A 7200
• Lease/Unit 11530.8 ~~FNL~~ & 5056' ~~FEL~~
• Survey/Section 6212.3' ~~FSL~~ & 3191.9' FWL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

Code 2500

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see instructions for Rule 37. Yes ☒ No ☐

Remarks

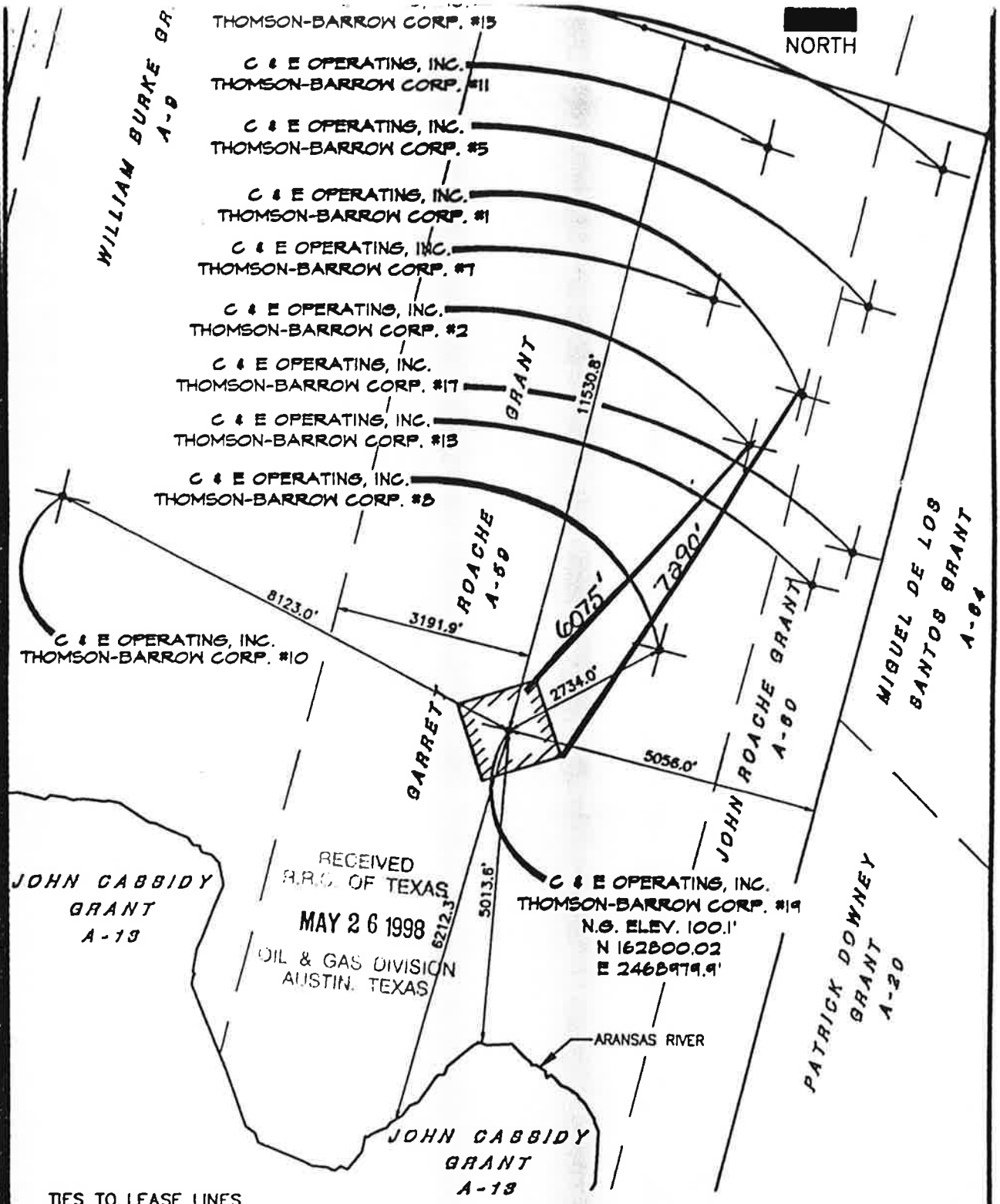
I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: Terry L. Boening
Name and title of operator's representative: Terry L. Boening/ President

Date: 5 22 98 (mo. day yr.) Tel.: 281/ 265-6500 (Area Code Number)

• RRC Use Only •
123 TW
211352 MAY 2698
2 Exp
476613

025-32896



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MAY 26 1998
OIL & GAS DIVISION
AUSTIN, TEXAS

TIES TO LEASE LINES
11530.8' FNL
5056.0' FEL

TIES TO SURVEY LINES
6212.3' FSL
3191.9' FWL

DISTANCE FROM NEAREST TOWN
13 MILES W OF WOODSBORO

DISTANCE FROM ARANSAS RIVER
5013.6'

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MAY 15, 1998 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde 5-21-98
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #19
GARRETT ROACHE GRANT, A-59
BEE COUNTY, TEXAS

DWG. No. :	9773-503
SCALE :	1" = 2000'
DATE :	5/98
DWN. BY :	MH

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (512)289-1385

MAP ID #81

API# 42-025-02478
DRY HOLE

81

52015

Application to Drill, Deepen or Plug Back.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1/60

RECEIVED
FEB - 2 1965
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK. Drill
SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE.
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND

COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, fo this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 3900' feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 3500 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date February 2, 19 65

Name of company or operator

Name Humble Oil & Refining Company

Address Wilson Tower

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Laura D. Thomson "B"

Number of Acres 10,500 Well No. 6

Number of wells on lease five (5)

Elevation _____ (Ft. above sea level) Section No. _____ Block No. _____

Survey John Roache Survey (A-60)

Zone or Reservoir Wildcat

To be Located in Wildcat Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) _____

Bee County

Approx. 8½ Miles Northeast direction from

Papalote, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling as soon as permitted

Depth to which you propose to drill 5100 feet.

Date work will start deepening _____

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name _____

Address _____

Loc: 3900' NW of the SE line of the lease & 3500' SW of #5.

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

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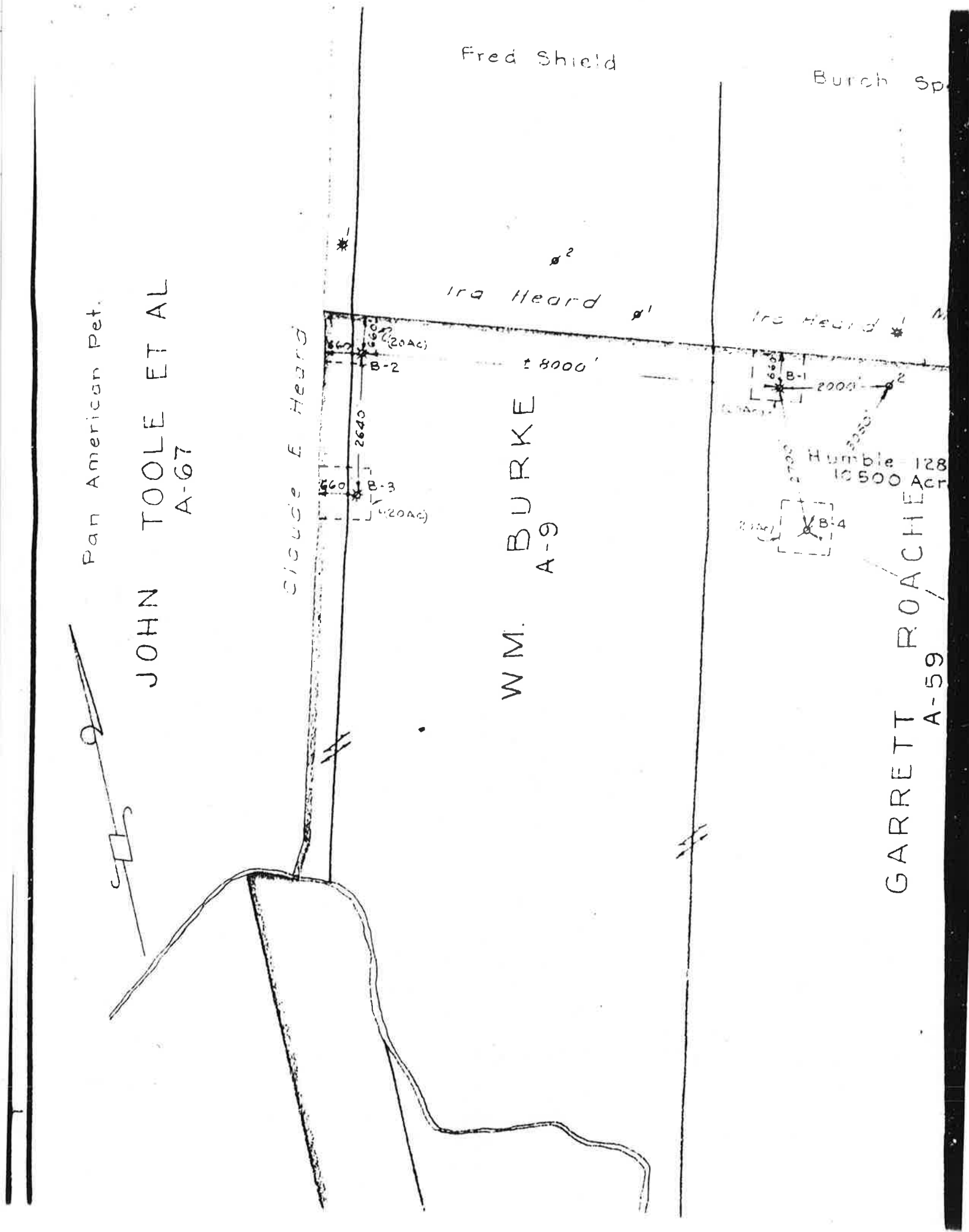
FEB 3 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

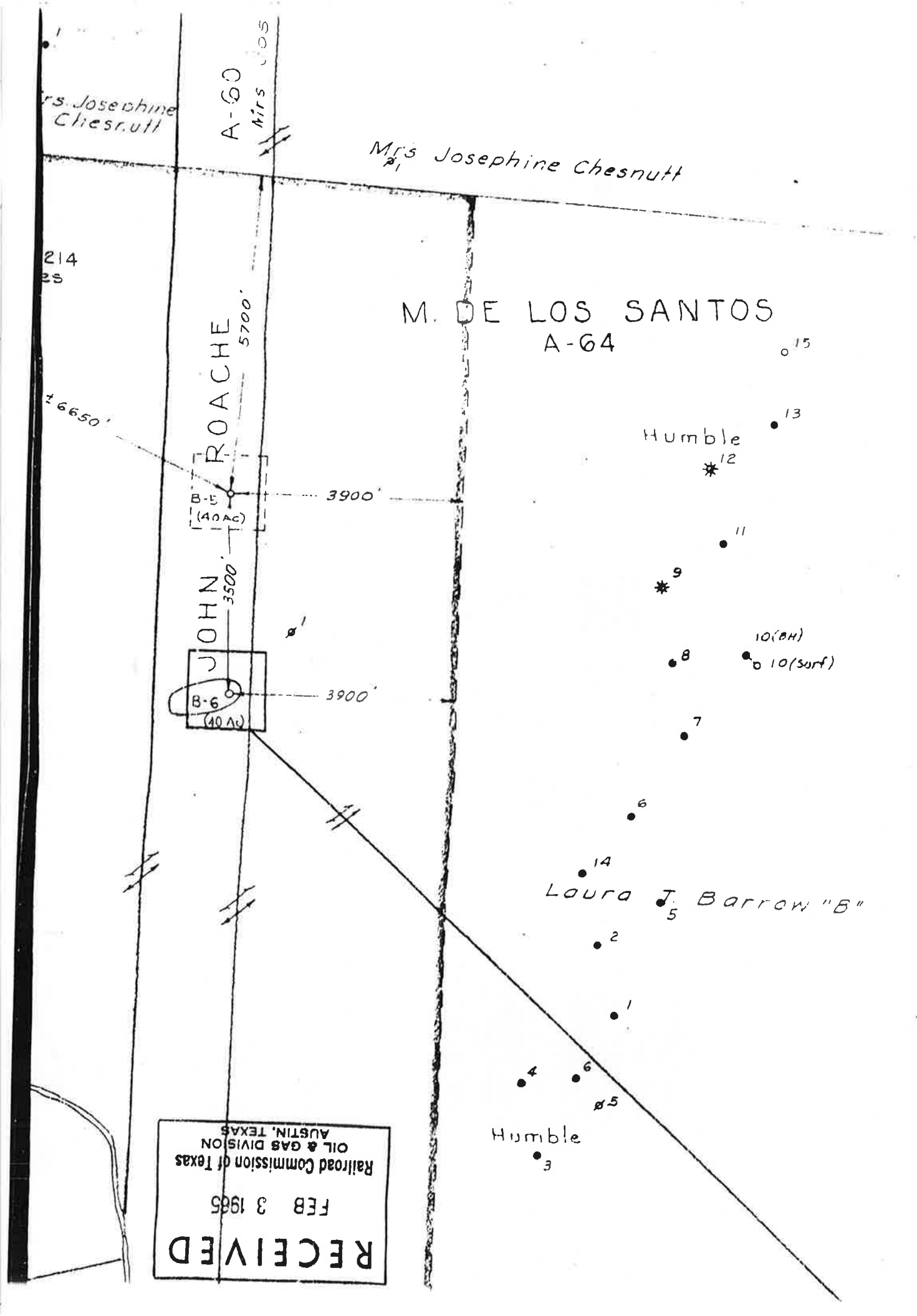
DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

mi Burk Hollow Fld. area

OK



Fred Shield
Burch Sp
Ira Heard
Ira Heard
Pan American Pet.
JOHN TOOLE ET AL
A-67
Claude E Heard
WM. BURKE
A-9
GARRETT ROACHE
A-59
B-1
B-2
B-3
B-4
(20Ac)
(20Ac)
2640
2000'
± 8000'
Humble 128
10500 Acr


Mrs. Josephine Chesnutt
A-60
Mrs. Josephine Chesnutt
M. DE LOS SANTOS
A-64
JOHN ROACHE
5700'
3500'
3900'
3900'
B-5
(40 Ac)
B-6
(40 Ac)
16650'
Humble
Laura J. Barrow "B"
Humble
RECEIVED
FEB 3 1985
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

52015

Please Refer to File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED R. R. C. OF TEXAS MAR 26 1965 O. G. SAN ANTONIO, TEXAS

Form 2A Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company HUMBLE OIL & REFINING COMPANY Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

Sec. No. — Block No. — Survey JOHN ROACHE (A-60) County BEE

Well No. 6 Name of Lease LAURA D. THOMSON 'B' No. of Acres 10500 Elev. 109' DF

Name of Field in which well is located WILDCAT

Located 8½ Miles NE Direction from PALALOTE, TEXAS (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of HUMBLE OIL & REFINING COMPANY

Drilling Commenced 3-3 , 1965. Drilling Completed 3-10 , 1965

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) DRY Total Depth 4600

Date you wish to Plug 3-10 , 1965.

Name of Party Plugging Well ROSE & WELLS DRILLING CO. Address P.O. BOX 4214, CORPUS CHRISTI, TEXAS

Correspondence regarding this well should be sent to: Name MR. W.J. BARRETT

Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

Initial Production of Gas: Volume (MCF) — 24 hrs. Pressure — lbs. per square inch

Initial Production of Oil: Barrels —

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained as to total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

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MAR 29 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

General Remarks:

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
SAND + CLAY	0	580	
SHALE + SAND STRKS.	580	1310	
SHALE + SAND	1310	1681	
SHALE + SANDY SHALE	1681	2275	
SHALE + SAND STRKS.	2275	3593	
SAND + SHALE STRKS.	3593	4088	
SHALE	4088	4260	
SAND + SANDY SHALE	4260	4600	
TOTAL DEPTH		4600	

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Method of shutting off water CASING + CEMENT Is water completely shut off?

Amount of water with oil per cent

I, H. C. SATTERWHITE, being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

H. C. Satterwhite
Representative of Company.

Subscribed and sworn to before me this 25TH day of MARCH, 1965.

J. L. GALLOWAY

J. L. Galloway
Notary Public
REFUGIO County, Texas.

52015

AFFIDAVIT ON PLUG TO ABANDON WELL

CS 127885

RECEIVED
R. R. C. OF TEXAS
MAR [illegible] 1965
O. G.
SAN ANTONIO, TEXAS

STATE OF TEXAS }
SS
COUNTY OF Victoria }

I, J. J. Polasek, being of lawful age and having full knowledge of the facts hereinbelow set out, do state:

That I am an employee of Halliburton Company, of Duncan, Oklahoma, employed as a "Cementer", and as such employee am engaged in the operation of the Halliburton Company's equipment employed in the cementing of wells being drilled for oil and/or gas;

That on the 10 day of March, 19 65, I operated the aforesaid cementing equipment under the direction, supervision and control of Humble Oil & Refining Company (customer) in the pumping of cement into said Well Number B-6 situated on the Thomson Lease in Bee County, Texas, which, according to the customer was for the purpose of plugging and abandoning said well;

That according to the information furnished me by the customer, his agent or representative, a cement plug was placed in said well from

1700 depth to the 1500 depth
600 depth to the 400 depth
10 depth to the 0 depth

AFFIANT: J. J. Polasek
Halliburton Company employee

STATE OF TEXAS }
SS
COUNTY OF Victoria }

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MAR 15 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

BEFORE ME, the undersigned authority, on this day personally appeared J. J. Polasek, known to me to be the person whose name is subscribed to this statement; who, after being duly sworn upon oath states: That the facts recited therein are true and correct to the best of his knowledge and belief.

Given under my hand and seal this 11 day of March, 1965.

(Notary Seal)

Donald S Bruce
Notary Public, in and for Victoria County, Texas

52015

RECEIVED
R. R. C. OF TEXAS
MAR 2 6 1965
O. G.
SAN ANTONIO, TEXAS

AFFIDAVIT ON CEMENTING

STATE OF TEXAS

COUNTY OF Refugio

CS-021190

I, R.L. Montgomery, being of lawful age, do state that I am employed by the Halliburton Oil Well Cementing Company in the capacity of Cementer, and that on 5 day of March, 19 65, the HALLIBURTON COMPANY rented equipment and personnel to Humble Oil & Ref. Co. for the purpose of cementing the _____ (production, Surface string of casing in their Well Number B-6 protection, surface) L.B. Thompson Lease, located in Refugio County, Texas. Information provided me by the customer company, his agent or representative, states that the above string of casing was size 8 5/8" O.D., set in 12¼ inch drilled hole, and that casing depth set was 304 feet.

For this cement job, I mixed the following:

175 Portland	Sacks	8 Gel	Admix
	Sacks		Admix
	Sacks		Admix

Based upon the above information, according to my cement tables, I have calculated that the above volume of cement will fill up an annular height of 775 feet between 8 5/8" casing and 12¼ hole. The work performed was done under the direction, supervision and control of the said Humble Oil & Ref. Co. (customer).

AFFIANT: R. Montgomery
HALLIBURTON COMPANY
employee.

STATE OF TEXAS

COUNTY OF Refugio

BEFORE ME, the undersigned authority, on this day personally appeared R.L. Montgomery, known to me to be the person whose name is subscribed to this statement; who, after being duly sworn upon oath states: That to the best of his knowledge and belief the facts as recited above are true and correct.

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MAR 29 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

Given under my hand and seal this 20 day of March, 1965.

(Notary Seal)

Notary Public, in and for Refugio County, Texas.

52015

Please Refer to
File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED R. R. C. OF TEXAS MAR 26 1965

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company HUMBLE OIL & REFINING COMPANY Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

Sec. No. — Block No. — Survey JOHN ROACHE (A-60) County BEE

Well No. 6 Name of Lease LAURA D. THOMSON "B" No. of Acres 10,500

Name of Field in which well is located WILDCAT Date well was plugged 3-10, 1965

Form 1 (Notice of Intention to Drill) Was Filed in Name of HUMBLE OIL & REFINING COMPANY

Character of Well at the time of completion: Oil _____ (Initial Production) bbls; Gas _____ (Initial Production) Cu. Ft.; Dry YES

Amount well producing when plugged: Oil — bbls; Gas — Cu. Ft.; Water — bbls.

Has this well ever produced oil or gas? NO

Total Depth 4600 feet. Top of each producing sand NONE feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? YES

How was mud applied? POWER PUMP

Were plugs used? YES If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? NO

100 sack plug from 1550 - 1700 feet; 1/2 sack plug 400 - 600 feet; 10 sack plug in top of 8 5/8" casing. Installed 8 5/8" x 2" swedge x 2" plug valve on top of 8 5/8" casing.

SIZE PIPE	PUT IN WELL Ft.	PUT IN WELL In.	PULLED OUT Ft.	PULLED OUT In.	LEFT IN WELL Ft.	LEFT IN WELL In.	PACKERS AND SHOES
8 5/8"	554.35		NONE		554.35		GUIDE SHOE & FLOAT COLLAR

Show depth found and thickness of all water, oil and gas formations NO COMMERCIAL SANDS

Have all abandoned wells on this lease been plugged according to Commissions rules? YES

Manner of confining all oil, gas or water to strata: CASING & CEMENT

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows: AMERADA PETROLEUM CORP., 1811 NIELS ESPERSON BLDG., HOUSTON, TEXAS, HAWN BROS., 200 HAWN BLDG., CORPUS CHRISTI, TEXAS; HEWITT & DOUGHERTY, P.O. BOX 640, BEEVILLE, TEXAS; PAN AMERICAN PETROLEUM CORP., DRAWER 1980, CORPUS CHRISTI, TEXAS; FRED W. SHIELD, 1442 MILAM BLDG., SAN ANTONIO, TEXAS; BURCH SPEARS, INC., P.O. BOX 3187, VICTORIA, TEXAS.

Was notice given before plugging to all available adjacent lease owners as required by Rule 10? YES

I, H. C. SATTERWHITE, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Name H. C. Satterwhite Title DIST. ADMIN. SUPVR.

Subscribed and sworn to before me this 25TH day of MARCH, 1965

J. L. GALLOWAY

Notary Public [illegible] County, Texas

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Correspondence regarding this well should be addressed to:

Name MR. W. J. BARRETT Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

MAP ID #82

API# 42-025-32832
OIL WELL
SHUT IN

Type or print only

40.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

3/16/98
55556

Form W-2
Rev. 4/1/83
483-046

Oil Well Potential Test, Completion or Recompletion Report, and Log

API No 42-025 32832

7 RRC District No. 02

8 RRC Lease No 07800

1 FIELD NAME (as per RRC Records or Wildcat): LAURA THOMSON (5600 #3)

2 LEASE NAME: LAURA T. BARROW "B"-88

9 Well No 32

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP.

RRC Operator No 592645

10 County of well site: BEE

4 ADDRESS: 1010 Tower II, Corpus Christi, Texas 78478

11 Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (explain in Remarks) [ ]

5 If Operator has changed within last 60 days, name former operator

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SAN ANTONIO, TEXAS

6a Location (Section, Block and Survey): M. DeLos Santos, A-64

6b Distance and direction to nearest town in this county: 22 miles SE from Beeville

12 If workover or reclass give former field (with reservoir) & gas ID or oil lease no
FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil - O Gas - G | WELL NO

13 Type of electric or other log run: HRI - Spectral Denisty-Dual Spaced Neutron

14 Completion or recompletion date: 3-6-98

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15 Date of test	16 No of hours tested	17 Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)	18 Choke size
3-7-98	3	Flowing	20/64"

	Oil - BBLS	Gas — MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19 Production during Test Period ▶	3.75	2	5	533	150 PSI
20 Calculated 24-Hour Rate ▶	30	16	120	Oil Gravity—API—60°	Casing Pressure 0 PSI

21 Was swab used during this test? Yes [ ] No [X]

22 Oil produced prior to test (New & Reworked wells): 0

23 Injection Gas—Oil Ratio: n/a

REMARKS

Return to Records Retention

RECORD CODIFICATION

APR 10 1998

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature Well Tester | Name of Company | RRC Representative

OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Eduardo A. Riddle
Typed or printed name of operator's representative

President
Title of Person

512/883-1911
Telephone Area Code Number

3 / 19 / 98
Date. mo. day year

Eduardo A. Riddle
Signature

VALID PERMIT
PRORATION ALLOCATION
MAR 27 1998

SECTION II — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24 Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

25. Permit to Drill, Plug Back or Deepen — DATE 7/03/97 — PERMIT NO. 464401
Rule 37 Exception — CASE NO
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO
Other — PERMIT NO

26. Notice of Intention to Drill this well was filed in Name of
MUELLER ENGINEERING CORP.

27. Number of producing wells on this lease in this field (reservoir) including this well: 3

28. Total number of acres in this lease: 360.00

29. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 1-31-98; Completed 2-9-98

30. Distance to nearest well, Same Lease & Reservoir: 2000'

31. Location of well, relative to nearest lease boundaries of lease on which this well is located: 920 Feet From SE Line and 3800 Feet from NE Line of the Laura T. Barrow "B"-88 Lease

32. Elevation (DF, RKB, RT, GR, ETC.): 10' RKB

33. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

34. Top of Pay: 5,534' | 35. Total Depth: 5,610' | 36. P B. Depth: 5,550' | 37. Surface Casing Determined by: Field Rules [ ] | Recommendation of T.D W.R. [ ] | Railroad Commission (Special) [X] | Dt of Letter | Dt of Letter 8/26/97

38. Is well multiple completion? no

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #

40 Intervals Drilled by | Rotary Tools: X | Cable Tools

41. Name of Drilling Contractor: Price Drilling Co.

42. Is Cementing Affidavit Attached? [X] Yes [ ] No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8-5/8"	24#/ft	591'		260 sx."A"	12-1/4"	surface	417
4-1/2"	11.6/13.5	5605'		525 sx A Lite 300 sx. "H"	7-7/8"	surface	2349

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set
2-3/8"	5,520'	

46. Producing Interval (this completion) Indicate depth of perforation or open hole
From 5,534' To 5,536'
From To
From To
From To

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
5,557' - 5,560'	Abandoned below CIBP @ 5,550'

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
5600 #3	5,534'		
5600 #4	5,557'		

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT

(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (5600 #3)	2. LEASE NAME: Barrow "B"
3. OPERATOR: MUELLER ENGINEERING CORP.	
4. ADDRESS: 1010 Tower II, Corpus Christi, Texas 78478	
5. LOCATION (Section, Block, and Survey): M.de los Santos Survey, A-64	
6. RRC District: 02	
7. RRC Lease Number. (Oil completions only)	
8. Well Number: 32	
9. RRC Identification Number (Gas completions only)	
10. County: Bee	

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RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
315	315	0.25	0.44	1.39	1.39
597	282	0.25	0.44	1.24	2.63
1347	750	0.50	0.87	6.53	9.16
2235	888	0.50	0.87	7.73	16.89
3040	805	0.75	1.31	10.55	27.44
3986	946	1.00	1.75	16.56	44.00
4215	229	1.00	1.75	4.01	48.01
4914	699	1.25	2.18	15.24	63.25
5600	686	1.00	1.75	12.01	75.26

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no
18. Accumulative total displacement of well bore at total depth of 5600 feet = 75.26 feet.
*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line 920 feet.
21. Minimum distance to lease line as prescribed by field rules 467 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? no
(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Richard B. Shaw
Signature of Authorized Representative

Richard B. Shaw Vice-President
Name of Person and Title (type or print)

Price Drilling Company
Name of Company

Telephone: 512 256-3363
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Eduardo A. Riddle
Signature of Authorized Representative

Eduardo A. Riddle, P.E., President
Name of Person and Title (type or print)

MUELLER ENGINEERING CORP.
Operator

Telephone: 512/883-1911
Area Code

Railroad Commission Use Only:

Approved By: Checked by Dora Basaldua Title: _____ Date: 3-23-98

* Designates items certified by company that conducted the inclination surveys.

RECORD OF INCLINATION (Continued from reverse side)

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)

Cementer: Fill in shaded areas
Operator: Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
Mueller Engineering Corp.	592645	02	Bee County
5 Field Name (Wildcat or exactly as shown on RRC records)	**6 API No**		**7 Drilling Permit No**
Laura Thomson (5600 #3)	42-025 32832		464401
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Barrow "B"			B-32

CASING CEMENTING DATA.		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		02-01-98					
13 •Drilled hole size		12-1/4"					
•Est % wash or hole enlargement		60		T.N.R.C.C. LETTER DATED		6-11-97	
14 Size of casing (In OD)		8-5/8"		Depth		1458'	ft.
15 Top of liner (ft)		n/a		13(A) Exception Dated		8-26-97	
16 Setting depth (ft)		591'		Surface Casing		5760'	ft.
17 Number of centralizers used		5		D.V. @			ft.
18 Hrs waiting on cement before drill-out		4					
1st Slurry	19 API cement used No of sacks ▶	65					
	Class ▶	A+3%D-79+3% salt (BWOW)					
	Additives ▶						
2nd Slurry	No of sacks ▶	195					
	Class ▶	A NEAT					
	Additives ▶						
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶	187					
	Height (ft) ▶	453					
2nd	Volume (cu ft.) ▶	230					
	Height (ft) ▶	557					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶	417					
	Height (ft) ▶	1010					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30 Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Michell Love, Supervisor — Name and title of cementer's representative
Dowell Schlumberger — Cementing Company
Mitch Love — Signature

Rt 4 Box 334 Victoria Tx 77901 — Address, City, State, Zip Code
512-578-0258 — Tel.: Area Code Number
02-01-98 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Eduardo A. Riddle, P.E. — Typed or printed name of operator's representative
President — Title
Eduardo A. Riddle — Signature

1010 Tower II, Corpus Christi, Texas 78478 — Address, City, State, Zip Code
512/883-1911 — Tel.: Area Code Number
3/7/98 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaed areas.
Operator: Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4. County of Well Site
Muller Engineering	592645	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)	**6 API No.**		**7 Drilling Permit No**
LAURA THOMSON (5600 #3)	42- 025-32832		464401
8. Lease Name	**9. Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Barrow "B"			B-32

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				2/9/98			
13. ●Drilling hole size				7-7/8"			
●Est. % wash or hole enlargement				35%			
14 Size of casing (in O D)				4-1/2"			
15. Top of liner (ft)				na			
16. Setting depth (ft)				5,605'			
17 Number of centralizers used				15			
18 Hrs. waiting on cement before drill-out				na			
1st Slurry	19. API cement used: No. of sacks			700			
	Class			A			
	Additives			*			
2nd Slurry	No. of sacks			305			
	Class			H			
	Additives			**			
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)			2016			
	Height (ft.)			8428			
2nd	Volume (cu. ft)			333			
	Height (ft.)			1461			
3rd	Volume (cu. ft)						
	Height (ft.)						
Total	Volume (cu ft.)			2349			
	Height (ft.)			9889			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

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22. Remarks
* A + 3% D79 + 3% D44 (bwow) + 0 2% B71
** H + 0 3% D60 + 0 2% D46 + 0 1% B71

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Jon R. Smith (Engineer)	Dowell Schlumberger	
Name and title of cementer's representative	Cementing Company	Signature

202 Burroughsville Road	Victoria, Texas 77901	(512) 573-6378	February 9, 1998
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo day yr.

OPERATOR'S CERTIFICATE I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Eduardo A. Riddle, P.E.	President	Eduardo A. Riddle
Typed or printed name of operator's representative	Title	Signature

1010 Tower II, Corpus Christi, TX. 78478	512/883-1911	3/20/98
Address City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's State Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (o).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

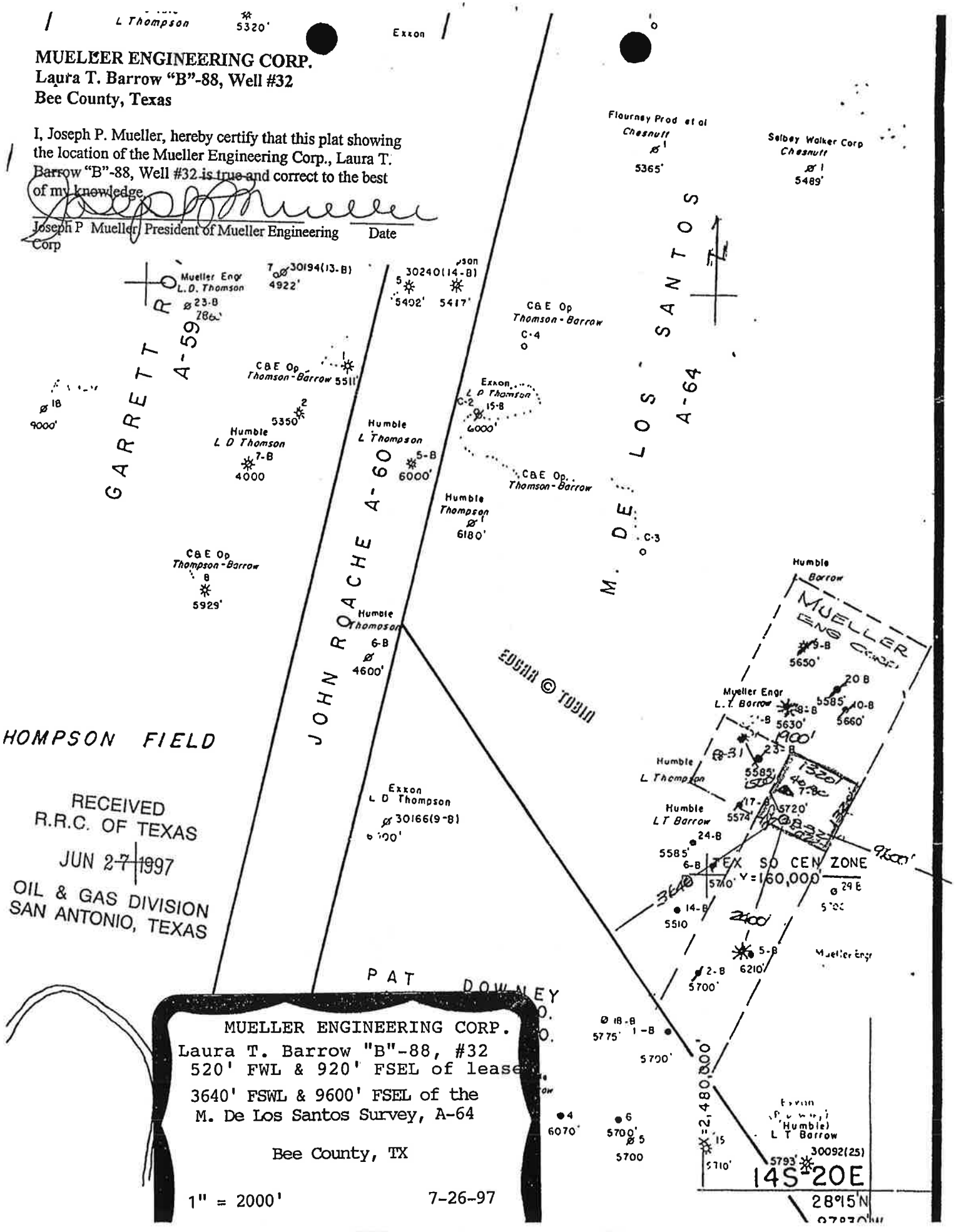
G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

MUELLER ENGINEERING CORP.
Laura T. Barrow "B"-88, Well #32
Bee County, Texas

I, Joseph P. Mueller, hereby certify that this plat showing the location of the Mueller Engineering Corp., Laura T. Barrow "B"-88, Well #32 is true and correct to the best of my knowledge.

Joseph P Mueller, President of Mueller Engineering Corp — Date



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R.R.C. OF TEXAS
JUN 27 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

MUELLER ENGINEERING CORP.
Laura T. Barrow "B"-88, #32
520' FWL & 920' FSEL of lease
3640' FSWL & 9600' FSEL of the
M. De Los Santos Survey, A-64

Bee County, TX

1" = 2000'

7-26-97

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

Address:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32832 ✓ 7B
▶ Permit No. 464401 GAUGE
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): Mueller Engineering Corp. OK 6-30-97
2. Address (including city and zip code): 1010 Tower II, Corpus Christi, Texas 78478 X
3. RRC Operator No.: 592645
4. RRC District No.: 02
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): Laura T. Barrow "B"-88
7. RRC Lease/ID No.: 07800
8. Well No.: 32
9. Total Depth: 5600'
10. Location
• Section _____ Block 22 Survey M. De Los Santos Abstract No. A-64
• This well is to be located _____ miles in a southeast direction from Beeville, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 520' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 360 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Laura Thomson (5600 #3) 52285498	5500'	467/1200	40	40	No	~~1800'~~	Oil/Gas	3	2
Laura Thomson (5600 #4 Sand) 52285830	5600'	467/1200	40	40	No	1500'	Oil	2	--
Wildcat 4001	5100'	467/1200	40	40	No	N/A	Oil/Gas	1	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit ~~520' FNL~~ & 920' FSEL ← 3800 NE
• Survey/Section 3640' FSWL & 9600' ~~FSEL~~

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]
24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Joseph P. Mueller, President
Signature — Name and title of operator's representative

June 17, 1997 — 512-883-1911
Date: mo. day yr. — Tel.: Area Code Number

• RRC Use Only •

150 App
213834 JUN 30 97
464401

MAPPING 025-32832

MUELLER ENGINEERING CORP.
Laura T. Barrow "B"-88, Well #32
Bee County, Texas

I, Joseph P. Mueller, hereby certify that this plat showing the location of the Mueller Engineering Corp., Laura T. Barrow "B"-88, Well #32 is true and correct to the best of my knowledge.

Joseph P Mueller, President of Mueller Engineering Corp. Date

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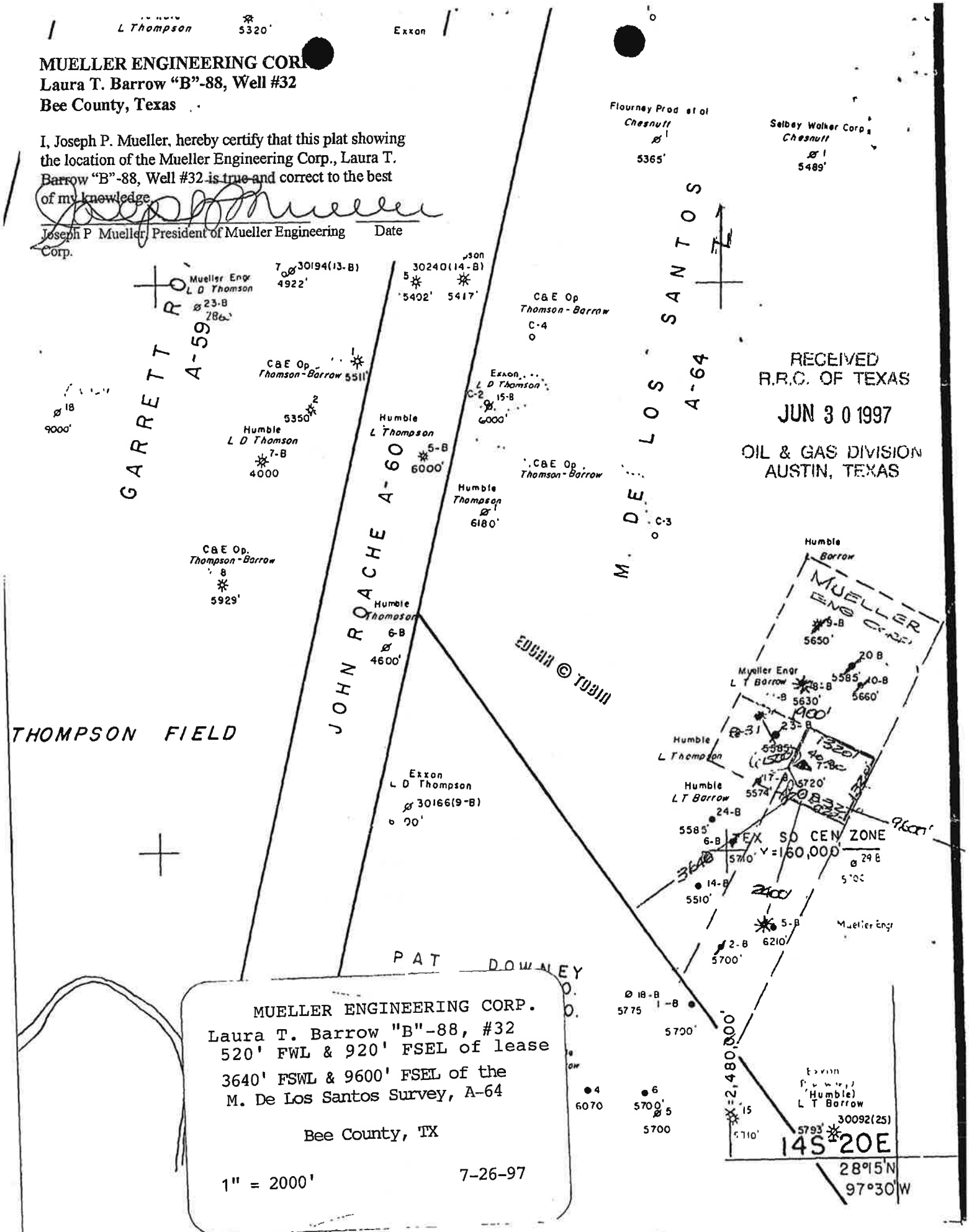
R.R.C. OF TEXAS
JUN 3 0 1997
OIL & GAS DIVISION
AUSTIN, TEXAS



MUELLER ENGINEERING CORP.
Laura T. Barrow "B"-88, #32
520' FWL & 920' FSEL of lease
3640' FSWL & 9600' FSEL of the
M. De Los Santos Survey, A-64

Bee County, TX

1" = 2000' 7-26-97

PLEASE DO NOT STAPLE

DEPTH OF U[illegible]LE-QUALITY GROUND WATER TO BE [illegible]OTECTED

PLEASE READ ALL INSTRUCTIONS

The information requested is essential in order for this agency to provide an appropriate response. Please allow for receipt of this form in our offices at least two weeks before your operation begins. Due to the volume of these requests, it is difficult for us to handle telephone inquiries, and such only serve to delay the processing of these forms. Complete, keep the bottom sheet (goldenrod) for your files, and mail the top 3 sheets of the 4-sheet set of carbon-backed forms to the address below; one of them will be returned to you bearing our response and one will be sent to the appropriate district office of the Railroad Commission. For questions phone 512/239-0515.

Surface Casing - MC 151
TNRCC
P.O. Box 13087
Austin, TX 78711-3087

Date 6-4-97 **TNRCC File No.: SC-** 3927

RECEIVED
JUN 16 1997
REPLY
FILE

Mickey Meincke
Name of person preparing this request & telephone no. w/AC

Mueller Engineering Corp.
Company (operator's name as on RRC form W-1)

1010 Tower II
Mailing Address

Corpus Christi, Texas 78478
City and State Zip Code

COUNTY Bee Survey Name M. De Los Santos
Block No. _____ Township _____ Section or Survey No. _____ (or) Lot No. _____
Abstract No. A- 64 LEASE Name Laura T. Barrow Well No. B-32

A map showing all surrounding SURVEYS and your well site must accompany this request.

Distances, in feet, and directions measured at right angles from each of two intersecting Section or Survey lines
(NOT LEASE LINES) 7800' feet from northeast line and 4800' feet from southwest line
Distance (in miles) and direction from a nearby town in this County (name the town) 22+/- miles southeast from Beeville

THE ABOVE INFORMATION IN THIS BLOCK MUST BE COMPLETE AND CORRECT!!!

RRC Lease No _____ RRC Dist. No. 02

Elevation (if avail.) _____ Total Depth 5600' Geologic Fm. at T.D. Frio
Purpose of the Request: ☒ New Drill ☐ Re-entry ☐ Plug & Abd. ☐ Other (specify) _____
Is this an amended request? ☐ Yes ☒ No Give previous File No. for this well: SC- _____
Additional data (check if attached):
Log of same or nearby well _____ (The applicable type of well log of a nearby well that shows the aquifers.)
ALWAYS attach the electric log of any well that is to be reentered.
Additional remarks: _____

TYPE OR PRINT IN INK

Fold

The TEXAS NATURAL RESOURCE CONSERVATION COMMISSION's recommendation for the protection of usable-quality ground water at the referenced location is as follows:

TO BEE,SUR SANTOS M.,LSE-LAURA T. BARROW,A 64,#1/1450

The interval from the land surface to a depth of 1450 feet must be protected.

Fold

DO NOT WRITE HERE
FOR TNRCC USE ONLY

RECEIVED
R.R.C. OF TEXAS
JUN 30 1997
OIL & GAS DIVISION
AUSTIN, TEXAS

Very truly yours,
Robert L. Espeseth
Robert L. Espeseth
Geologist, Surface Casing, TNRCC

Date June 11, 1997
typed by TNRCC

NOTE: The depth to which we recommend that usable-quality water strata should be protected is intended to apply only to the subject well and not for area-wide use. Approval of the well-completion methods for protection of this ground water falls under the jurisdiction of the Railroad Commission of Texas. **This recommendation is intended for normal drilling, production, and plugging operations only and does not apply to salt water disposal operations into a nonproductive zone (RRC Form W-14).**

TNRCC-0051 (Rev 09-17-96)

MAP ID #83

API# 42-025-02482
OIL WELL
PLUGGED

02482

Plugging Record 00007 RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id. Number: 02907

2. FIELD NAME (as per RRC Records): LAURA THOMSON (5600 No. 4)

3. LEASE NAME: LAURA T. BARRON B

5. Well Number: 17

6. OPERATOR: EXXON CORPORATION

10 County: BEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 10-19-64

8. SURFACE LOCATION: 3200 FEET FROM E OR W LINE, AND 4400 FEET FROM NE OR SW LINE

12 Date Drilling Commenced: 10-29-64

9. SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS (A-64)

13. Date Drilling Completed: 11-12-64

15. Type of Well (Oil, Gas, Dry)*: OIL

16. Type of Completion (Single, Dual, Etc.): SINGLE

17. Total Depth: 5575

14. Date Well Plugged: 8-15-73

18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19. Manner of Placement

PLUG #1	5 SACKS	TOP 5378	BOTTOM 5528	TYPE CLASS H
PLUG #2	15 SACKS	TOP 51	BOTTOM 541	TYPE CLASS H
PLUG #3	SACKS	TOP	BOTTOM	TYPE
PLUG #4	SACKS	TOP	BOTTOM	TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23. Depth of Deepest Fresh Water: 1600 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25. If NO, Explain:

26 Name and Address of Party Plugging Well: CULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
4 7/8"	530.34		526.34	
4 2 7/8"	5561.34		5557.34	

* 7 5/8" & 2 7/8" CASING CEMENTED TO SURFACE

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS & COMPANY, BOX 1490, ALICE, TEXAS 78332

29 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle
REPRESENTATIVE OF COMPANY

GRADY COYLE
PRORATION SPECIALIST
TITLE

8-31-73
DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION OF TEXAS

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SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS Casing cut off 4' below ground level and capped.

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SEP 4 1973
SAN ANTONIO, TEXAS
O.C.

Each item should be identified to the purpose for which it is used.

0 0 0 0 7 3 0 9 2 8

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson (5600 No. 41)	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or L. D. Number(s) LAURA BELL CARRON B 02907	*6. Well Number B-17
*7. Location (Section, Block, and Survey) M. DE LOS SANTOS (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8 Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/15/73	8/15/73				
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5528'	591'				
22. Sacks of Cement Used (each plug)	5	45				
23. Slurry Volume Pumped (cu. ft.)	5.9	17.7				
24. Calculated Top of Plug (ft.)	5378'	51'				
*25. Measured Top of Plug (if tagged) (ft.)						

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R.R.C. OF TEXAS
SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

2907

26. Remarks:	*27. Remarks:
Circ well w 9.5# mud [illegible] Cut off 4' below grd level, capped well. [illegible] [illegible]	

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J W Culberson Jr
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr., Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 22, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-31-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

02482

0 Jun 9115

This Form must be filed in District Office not later than ten days after date of completion of water penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

FIELD NAME: LAURA THOMSON (5600' No. 4 SAND) RRC DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: HUMBLE OIL & REFINING COMPANY
(Use Name you will use on your E.R. Report in reporting Production.)

NAME OF LEASE: LAURA T. BARRON-A LEASE NUMBER: 02907 WELL NO. 17

ADDRESS: CORPUS CHRISTI, TEXAS 78401 SECTION — BLOCK —
(City and State)

P. O. BOX NO. WILSON TOWER SURVEY M. DE LOS SANTOS ELEVATION 114' DF

COUNTY IN WHICH WELL IS LOCATED REE Unit Designation — Ac. in Unit —

8 Miles NE direction from PAPALOTE, TEXAS nearest postoffice or town.

Date potential test commenced 11-12, 19 64 Hour 3:00 P. M.

Date potential test completed 11-13, 19 64 Hour 3:00 P. M.

Has this lease changed operating names within the last 60 days? NO If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? YES Date Log filed WITH THIS REPORT

DATA ON POTENTIAL TEST

Date Necessary on Flowing Well

Flowing pressure on csg 695

Flowing pressure on tbg —

Length of test 24 Hrs. 0 Mins.

Size choke 1/8 Make choke TC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? YES

Is this well being jetted? NO

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? —

Oil producing during this test into TANK (Tank or Pit)

Date this well was last shot or acidized

Date Necessary on Pumping Well

Make of Pumping unit —

Length of stroke used —

No. strokes per minute —

Size working barrel —

Length of test — Hrs. — Mins.

Date Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size — H.P. Pump Model —

Pump Rating — B.P.D. Total Fluid at — Head

Setting Depth — Tubing Size —

Length of test — Hrs. — Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials? —

Name of P.L. Connection THE PERMIAN CORP. (TAYLOR)

If Shot: No. Quarts used — If Acidized: No. Gallons used —

Barrels of oil produced from this well since shot or treatment to time this test was started —
(Answer only if this Test was occasioned by shooting or treating this well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test 50
(Applies to new and reworked wells only.)

— Percent water produced during this test TRACE Total depth of this well 5575 Ft.

Is this a test of a new well for which no previous allowable has been assigned? YES

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? NO

What is the 24-hour potential at which it is carried currently on proration schedule? —

If this test is the result of a workover what was the nature of the job? —

Hour well completed 10:00 A. M. Date well completed 11-12, 19 64.

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPLETED Feet	PRODUCTION COMPLETED In.	PRODUCTION COMPLETED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
27132	1000		2	4	3	11½	1	7½	106		106

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24 hours) 106 (100% Tank Tbl.)

GAS/OIL RATIO OF THIS WELL 170 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 36.0

NOV 27 1964
O. G.
AUSTIN, TEXAS

(OVER)

NW #17 @ 10 + 88 11/15 12/1

+10 SPACE

02482 — 02907 — 0480

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of HUMBLE OIL & REFINING COMPANY

Date "Drilling, Plug Back or Deepening Permit" was issued OCTOBER 19, 1964

Is Location "REGULAR," or was "SPECIAL PERMIT" required? SPECIAL

If special permit was secured what is permit number? 57165

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 12

Location of well relative to lease boundaries of lease on which this well is located: *BELOW feet from line and feet from line of the lease

Size of surface casing 7 5/8" Number feet of surface casing set 530.30

Size of oil string 2 7/8" Number of feet of oil string run 5501.30

Type of tubing head McEVOY Type of Bradenhead McEVOY

Top of pay 5521 Ft. Total Depth 5575 Ft. Size tubing run

Perforated from 5528 to 5532 No. Shots 8 No. ft. tubing run

Kind of fuel used to drill this well: NATURAL GAS Amt. of fuel used

Where fuel was secured GAS LIFT SYSTEM

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, must be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, if the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of such test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which the oil was run during the entire duration of this test.

T A Jeffers
Representative of Company making test

Representative of Offset Operator for NONE

Pipe Line Gauger for THE PERMIAN CORPORATION
Pipe Line Company

Representative of the Railroad Commission

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this test have been complied with and carried out in full, and that all data and facts set forth on both sides of this test report are true and correct.

H C Satterwhite H.C. SATTERWHITE for HUMBLE OIL & REFINING COMPANY
Representative of Company making test

SWORN TO AND SUBSCRIBED before me this the 23RD day of NOVEMBER, 1964

J. L. GALLOWAY

(Notary Seal)

J L Galloway
Notary Public in and for REFUGIO County, Texas

REMARKS: *LOCATION, 3130 FROM W LINE OF THE LEASE, 733' SW FROM WELL #7 AND 733' N FROM WELL #6.

0 1 1 0 1 1 6

Railroad Commission of Texas

OIL AND GAS DIVISION

AUSTIN, TEXAS

COMMISSIONERS
BEN RAMSEY
Chairman
ERNEST O. THOMPSON
JIM C. LANGDON

ARTHUR H. BARBECK
Chief Engineer

September 30, 1964

Humble Oil & Refg. Co.
Wilson Tower
Corpus Christi, Texas, 78401

Gentlemen:
IN RE: Laura T. Barrow "B" Well No. 17, Laura Thomson Field, Bee County

This will acknowledge receipt of your letter dated September 23, 1964 concerning the above-captioned well.

Authority is hereby granted to set approximately 500 feet of surface casing and to cement the long string from the bottom of the hole to the surface of the ground or to a point above the shoe of the surface pipe. In the event the well is a dry hole and no production string is set, it will be necessary that sufficient cement plugs be set in the well bore to protect all fresh water sands.

You must comply with all other provisions of Statewide Rule 13(A)(2) and are reminded of that portion which requires the representative of the cement company performing the cementing job to furnish an affidavit stating the amount of cement placed behind the pipe. This affidavit is to accompany the Potential Test (Form 3) in the case of an oil well and to accompany the Form GWT-1 and/or Form 2 in the case of a gas well.

It is requested that the Railroad Commission District Office shown below be notified approximately 12 hours prior to the time casing is cemented in this well. If it is necessary to give this notification at a time when the district office is closed, please contact a member of the Commission's district staff at one of the telephone numbers listed under "Night Telephone Numbers".

DISTRICT OFFICE	TELEPHONE NO.
San Antonio	512-CA6-0602

Night Telephone Nos.

PE6-3471

FL8-3365 - Beeville

Yours very truly,

Arthur H. Barbeck
Chief Engineer

By _____

SDM:eeb
cc: RRC - San Antonio

0848 — 03907

0 1 1 0 1 1 7

HUMBLE OIL & REFINING COMPANY

CORPUS CHRISTI, TEXAS 78401

CORPUS CHRISTI AREA

September 23, 1964

WILSON TOWER

Exception to Statewide Rule 13(A)(1)
Laura T. Barrow "B" Well No. 17
Laura Thomson Field
Bee County, Texas

Mr. A. H. Barbeck
Railroad Commission
Oil and Gas Division
Tribune Building
Austin, Texas

Dear Sir:

We respectfully request an exception to Statewide Rule 13(A)(1) for our Laura T. Barrow "B" Well No. 17, Laura Thomson Field, Bee County, Texas. The Texas Water Commission advises fresh water-bearing strata should be protected to 1600'.

We propose to set approximately 500' of surface casing and cement back to surface. Production string will be cemented from total depth to surface to protect fresh water-bearing strata. A similar exception was granted for our Well No. 16, same field, on February 28, 1964.

Yours very truly,

W. J. BARRETT
Area Production Manager

By Rec Beatty

Set 500' surface
+ cmt log string

RHB:jw

cc: Mr. D. C. Harvey
Mr. C. D. Ehrhardt

RECEIVED
R. R. C. OF TEXAS
SEP 25 1964
AUSTIN, TEXAS

0848 ---- 03907

01 01 18

AFFIDAVIT ON CEMENTING

STATE OF TEXAS

COUNTY OF Refugio

CS-148779

I, E.W.Clowers, being of lawful age, do state that I am employed by the Halliburton Oil Well Cementing Company in the capacity of Cementer, and that on 10 day of Nov., 1964, the HALLIBURTON COMPANY rented equipment and personnel to Humble Oil & Ref. Co. for the purpose of cementing the Production (production, protection, surface) string of casing in their Well Number B-17 Barrow Lease, located in Refugio County, Texas.

01 01 18

Information provided me by the customer company, his agent or representative, states that the above string of casing was size 2 7/8" O.D., set in 6 3/4" inch drilled hole, and that casing depth set was 5571 feet.

For this cement job, I mixed the following:

300 Portland	Sacks	40% by Diacel D	Admix
65 Portland	Sacks	12% Gel & 24 lbs. HR7	Admix
	Sacks		Admix

Based upon the above information, according to my cement tables, I have calculated that the above volume of cement will fill up an annular height of 6881 feet between 2 7/8" casing and 6 3/4" hole. The work performed was done under the direction, supervision and control of the said Humble Oil & Ref. Co. (customer).

AFFIANT: E. W. Clowers
HALLIBURTON COMPANY employee.

STATE OF TEXAS

COUNTY OF Refugio

BEFORE ME, the undersigned authority, on this day personally appeared E.W.Clowers, known to me to be the person whose name is subscribed to this statement; who, after being duly sworn upon oath states: That to the best of his knowledge and belief the facts as recited above are true and correct.

Given under my hand and seal this 11 day of Nov., 1964.

(Notary Seal)

RECEIVED
R. R. C. OF TEXAS
NOV 27 1964
O. & G.
AUSTIN, TEXAS

Notary Public, in and for Refugio County, Texas.

OS-18-02907

0 1 1 0 1 2 0

AFFIDAVIT ON CEMENTING

STATE OF TEXAS

COUNTY OF Refugio

CS-148770

I, W.A.Foster, being of lawful age, do state that I am employed by the Halliburton Oil Well Cementing Company in the capacity of Cementer, and that on 4 day of Nov., 1964, the HALLIBURTON COMPANY rented equipment and personnel to Humble Oil & Ref. Co. for the purpose of cementing the Surface (production, protection, surface) string of casing in their Well Number 17 Barrow Lease, located in Refugio County, Texas. Information provided me by the customer company, his agent or representative, states that the above string of casing was size ~~[illegible]~~ 7 5/8" O.D., set in 9 7/8" inch drilled hole, and that casing depth set was 541 feet.

For this cement job, I mixed the following:

175 Common	Sacks	8% Gel	Admix
	Sacks		Admix
	Sacks		Admix

Based upon the above information, according to my cement tables, I have calculated that the above volume of cement will fill up an annular height of 1485 feet between 27 5/8" casing and 9 7/8" hole. The work performed was done under the direction, supervision and control of the said Humble Oil & Ref.Co. (customer).

AFFIANT: W A Foster
HALLIBURTON COMPANY
employee.

STATE OF TEXAS

COUNTY OF Refugio

BEFORE ME, the undersigned authority, on this day personally appeared W.A.Foster, known to me to be the person whose name is subscribed to this statement; who, after being duly sworn upon oath states: That to the best of his knowledge and belief the facts as recited above are true and correct.

Given under my hand and seal this 19 day of Nov., 1964.

(Notary Seal)

RECEIVED
R.R.C. OF TEXAS
NOV 27 1964
O.G.
AUSTIN, TEXAS

J. F. Estes
Notary Public, in and for Refugio County, Texas.

0848 — 02907

011 0121

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form I-1
11-2-62

INCLINATION REPORT

ONE COPY MUST BE FILED WITH EACH COMPLETION REPORT

Field Name Laura Thomson (5600' #4 Sand) County Bee RRC Dist. No. 2

Operator Humble Oil & Refining Company Address Wilson Tower City Corpus Christi, Texas, 78401

Lease Name & No. Laura T. Barrow "B" - 02907 Well No. 17 Survey M. de Los Santos

RECORD OF INCLINATION

Depth (feet)	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
516 ot 525	3/4	6.76	6.76
1015	1/2	4.34	11.10
1510	1-1/4	10.79	21.89
1948	1-1/4	9.55	31.44
2667	1	12.58	44.02
3289	1-1/4	13.56	57.58
3909	1/4	2.73	60.31
4464	1/2	4.83	65.14
5058	1	10.10	75.24
5558	1	8.75	84.29

Total Displacement 84.29

Was survey run in Tubing ____ Casing ____ Open Hole X
Distance to nearest lease line 3130 feet
Distance to lease lines as prescribed by field rules 467 feet

Certification of personal knowledge Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.

Signature

Dillingham Drilling Co.
Company

RECEIVED R.R.C. OF TEXAS
NOV 27 1964
AUSTIN, TEXAS

Operator Affidavit:

(Note: Party making affidavit must strike out inapplicable phrases, and must file explanatory statement when applicable.)

Before me, the undersigned authority, on this day personally appeared D. O. Harvey, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath state (that he is acting at the direction and on behalf of the operator of the well identified in this instrument), and that such well was not intentionally deviated from the vertical whatsoever.

District Superintendent
Signature and Title of Affiant

Sworn and Subscribed to before me, this the 24th day of November, 1964.

J. L. GALLOWAY
Notary Public In and For Refugio County, Texas.

For The Chief:

Approved By: B. O. Eikel
Title: Dist. Supt.
Date: 11-25-64

Lobo 1 — 8480

011 122

Rub Pete

HUMBLE OIL & REFINING COMPANY

CORPUS CHRISTI, TEXAS, 78401

CORPUS CHRISTI AREA WILSON TOWER

REQUEST FOR EXCEPTION TO STATEWIDE RULE 13-C

Railroad Commission District Four

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION
TRIBUNE BUILDING
AUSTIN, TEXAS

An exception to Statewide Rule 13-C is respectfully requested for the following:

LEASE NAME Laura T. Barrow "B" WELL NO. 17

FIELD Laura Thomson (5600' No. 4) COUNTY Bee

FRESH WATER PROTECTION ADVISED (Note: 9-30-64 Exception approved to set 500' surface casing.)

Texas Water Commission Letter dated September 22, 1964. Depth 1600'

Field Rules

SURFACE CASING

Size 7-5/8" Depth Set 541' Cement 175 Sacks 8 % Gel

INTERMEDIATE CASING

Size Depth Set Cement Sacks % Gel

PRODUCTION CASING

Size 2-7/8" No. of Strings 1 Set 5571', ,

Cement 365 Sacks 12 % Gel

PRODUCTION CASING CEMENTED FROM BOTTOM TO Surface

TOP OF HIGHEST POSSIBLE PRODUCTIVE SAND IN WELL 5521'

HUMBLE OIL & REFINING COMPANY
Wilson Tower, Corpus Christi, Texas

By Royce H. Boman

GC:alc

RAILROAD COMMISSION OF TEXAS

Approved by A. H. Barbick Date 11-30-64

0848 — 0047

MAP ID #84

API# 42-025-02734
OIL WELL
PLUGGED

(84)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

025-02734

API NO. 42-~~427-31769~~ (if available)

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 02907

2. FIELD NAME (as per RRC Records): Laura Thomson (5600#4)

3. Lease Name: LAURA T. BARROW 'B'

5. Well No.: 23

6. OPERATOR: Mueller Engineering Corp.

6a. Original Form W-1 Filed in Name of: Humble Oil & Refining Company

10. County: Bee

7. ADDRESS: 1010 First City Tower II, Corpus Christi, Texas 78478

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 8-30-66

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3200' Feet From West Line and 4900 Feet From SW Line of the Barrow Lease

12. Permit Number: Unknown

9a. SECTION, BLOCK, AND SURVEY: M. De Los Santos A-64

9b. Distance and Direction From Nearest Town in this County: 10.8 miles E. of Skidmore

13. Date Drilling Commenced: 9-23-66

16. Type Well (Oil, Gas, Dry): Oil

Total Depth: 5585

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil-O Gas-G	WELL #

14. Date Drilling Completed: 10-4-66

18. If Gas, Amt. of Cond. on Hand at time of Plugging: NA

15. Date Well Plugged: 1-14-93

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	1-14-93							
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4643							
*22. Sacks of Cement Used (each plug)	105							
*23. Slurry Volume Pumped (cu. ft.)	123.9							
*24. Calculated Top of Plug (ft.)	3574							
25. Measured Top of Plug (if tagged) (ft.)	SURFACE							
*26. Slurry Wt. #/Gal.	15.7							
*27. Type Cement	H							

RECORD CORRECTION MAR 01 1993

Return to Central Records

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
7-5/8	29.7	538'	538	8-3/4"
2-7/8	7.9	5585	5585	6-3/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

—

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4043	TO	4046 (OH)	FROM		TO	
FROM	4443	TO	4446	FROM		TO	
FROM	4659	TO	4662	FROM		TO	
FROM	5037	TO	5040	FROM		TO	
FROM	5519	TO	5522	FROM		TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Mitchell Love Cementer — Signature of Cementer or Authorized Representative

South Central Cementers — Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Cheryl DeShields — REPRESENTATIVE OF COMPANY

Engineering Secretary — TITLE

2-5-93 — DATE

Phone (512)883-1911 — A/C NUMBER

RECEIVED R.R.C. OF TEXAS FEB 09 1993 SAN ANTONIO 7D

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

2/16/93

MAPPING

158

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — ☐ Yes ☒ No

32. How was Mud Applied? —

33. Mud Weight — LBS/GAL

34. Total Depth: 5585'

Depth of Deepest Fresh Water: 1350'

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	1350

35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules? ☒ Yes ☐ No

36. If NO, Explain: —

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: South Central Cementers, P. O. Box 967, Beeville, Texas 78104

Date RRC District Office notified of plugging: 1-14-93

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Mr. Thomas D. Barrow, 4605 Post Oak Place, Suite 207, Houston, Texas 77027-9728
Exxon Company USA , P. O. Box 2180, Houston, Texas 77252-2180

39. Was Notice Given Before Plugging to Each of the Above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed? None

42. Amount of Oil produced prior to Plugging — 0 — bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS ENCLOSED IS CHART OF PRESSURE TEST ON CSG PRIOR TO PERFORMING PLUGGING OPERATIONS. HELD 600 PSI FOR 40 MINUTES W/ NO LEAK OFF OBSERVED

02734

RECEIVED

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

FIELD NAME: Laura Thomson (5600' No. 4) DISTRICT NUMBER: 2
(Use Name designated on current Proration Schedule.)

NAME OF OPERATOR: Humble Oil & Refining Company
(Use Names you will use on your R.R. Report in reporting Production.)

NAME OF LEASE: Laura T. Barro "B" LEASE NUMBER: 02457 WELL NO. 23

ADDRESS: Corpus Christi, Texas, 78401 SECTION BLOCK
(City and State)

P. O BOX NO. Wilson Tower SURVEY N. De Los Santos (A-64) ELEVATION

COUNTY IN WHICH WELL IS LOCATED Jac Unit Designation Ac. in Unit

5.1 Miles N direction from Pumalone, Texas nearest postoffice or town.

Date potential test commenced October 3, 19 56 Hour 8:15 A. M.

Date potential test completed October 9, 19 56 Hour 8:15 A. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? Yes Date Log filed With this report

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg. 1200
Flowing pressure on tbg. -
Length of test: 24 Hrs. - Mins.
Size choke 9/64 Make choke TC
Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? Yes
Is this well being jetted? No
If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? -

Data Necessary on Pumping Well

Make of Pumping unit
Length of stroke used
No. strokes per minute
Size working barrel
Length of test Hrs. Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size H.P. Pump Model
Pump Rating B.P.D. Total Fluid at Head
Setting Depth Tubing Size
Length of test Hrs. Mins.
Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Oil producing during this test into Tank (Tank or Pit)
Name of P.L. Connection Humble Pipe Line Co.
Date this well was last shot or acidized
If Shot No. Quarts used
If Acidized No. Gallons used
Barrels of oil produced from this well since shot or treatment to time this test was started (Answer only if this test was occasioned by shooting or treating this well.)
Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test 216 (Applies to new and reworked wells only.)
Percent water produced during this test: Trace Total depth of this well 5535 Ft.
Is this a test of a new well for which no previous allowable has been assigned? Yes
Is this a plain retest (not a workover job) of a well which has a current allowable assigned? -
What is the 24-hour potential at which it is carried currently on proration schedule? -
If this test is the result of a workover what was the nature of the job? -
Hour well completed 2:00 P.M. Date well completed October 4, 19 56.

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
Floco Meter		Final Reading			34568.60						
		Initial Reading			34460.40						
					108.20				108.20		108.20

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24 hours) 108.20 (100% Tank. Tbl.)
GAS/OIL RATIO OF THIS WELL IS 1491 Cubic ft. of gas per barrel of Crude Oil
Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 35.2

(OVER)

Multi C (Lou Ma 10/16

Fill Thos. Ltr. Pkg.

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of Humble Oil & Refining Company

Date "Drilling, Plug Back or Deepening Permit" was issued August 30, 1956

Is Location "REGULAR," or was "SPECIAL PERMIT" required? Special

If special permit was secured what is permit number? 39992

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 14

Location of well, relative to lease boundaries of lease on which this well is located: *Below feet from _____ line and _____ feet from _____ line of the _____ lease

Size of surface casing 7-5/8" Number feet of surface casing set 526.32

Size of oil string 2-7/8" Number of feet of oil string run 5576.51

Type of tubing head McEvoy Type of Bradenhead McEvoy

Top of pay 5514 Ft. Total Depth 5585 Ft. Size tubing run -

Perforated from 5519 to 5522 No. Shots 7 No. ft. tubing run -

Kind of fuel used to drill this well Natural gas Amt. of fuel used -

Where fuel was secured Lease

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

C. C. Burkitt
Representative of Company making test

_____ for Not available
Representative of Offset Operator — Offset Operator

_____ for Not available
Pipe Line Gauger — Pipe Line Gauger

Representative of the Railroad Commission _____

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

R. H. Bomar, Jr. for Humble Oil & Refining Company
Representative of Company making test — Company making test

SWORN TO AND SUBSCRIBED before me this the 15TH day of October, 19__

(Notary Seal)

Notary Public in and for _____ County, Texas

REMARKS: *Location: 850' NW of Well #7 and 933' NE of Well #17; also [illegible] 44' SW of Well #8 and approximately 3200' SE of the NW line of the lease.

0 1 1 0 1 3 8

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form I-1
11-2-62

INCLINATION REPORT

ONE COPY MUST BE FILED WITH EACH COMPLETION REPORT

Field Name Laura Thomson County Bee RRC Dist. No. 2

Operator Humble Oil & Refining Company Address Wilson Tower City Corpus Christi, Texas 78401

Lease Name & No. L. T. Barrow Well No. B-23 Survey M. de Los Santos

RECORD OF INCLINATION

Depth (feet)	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
498	1/4	2.19	2.19
1016	1 3/4	15.80	17.99
1514	1 3/4	15.19	33.18
2077	1	9.85	43.03
2449	2	12.98	56.01
3005	1 1/2	14.57	70.58
4093	2 1/4	42.76	113.34
4593	1 1/2	13.10	126.44
5060	3/4	6.12	132.56
5558	1 1/2	13.05	145.61

RECEIVED
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Total Displacement 145.61

Was survey run in Tubing _____ Casing _____ Open Hole X
Distance to nearest lease line 3200 feet
Distance to lease lines as prescribed by field rules 467 feet

Certification of personal knowledge Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.

Mike Dillingham
Signature

Dillingham Drilling Co
Company

Operator Affidavit:

(Note: Party making affidavit must strike out inapplicable phrases, and must file explanatory statement when applicable.)

Before me, the undersigned authority, on this day, personally appeared R. H. Bemar, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states ~~that he is the operator of the well identified in this instrument~~ (that he is acting at the direction and on behalf of the operator of the well identified in this instrument), and that such well was not intentionally deviated from the vertical whatsoever. ~~(and that such well was deviated at random for the reason described in the attached statement).~~

R H Bemar Unit Head
Signature and Title of Affiant

Sworn and Subscribed to before me, this the 25TH day of October, 19 66.

Notary Public in and for _____
County, Texas.

RRC Use Only:

Approved By: Diana Sanders
Title: Clerical Supervisor
Date: 10-26-66

FLD. #0845 ESE. #02907

0 1 0 0139

AFFIDAVIT ON CEMENTING

STATE OF TEXAS

COUNTY OF Refugio

I, G.H.Wilkins, being of lawful age do state that I am employed by Halliburton Company in the capacity of Cementer, and that on the 26 day of September, 19 66, Halliburton Company performed a cementing service on the ~~production~~ Surface strings of casing in Well Number B 23, L.T.Barrow lease, located in Refugio County, Texas, for Humble Oil & Ref. Co. (Customer).

Information provided me by the customer, his agent or representative, states that one (1) strings of casing, size 7 5/8" OD were set in 9 7/8" (Size) drilled hole and ~~through~~ (No. Feet) ~~surface pipe~~, casing depths being 538Ft.

Cement and admixes used were: 140 sacks Common 6% Gel & 3% CaCl.

AFFIANT G.H. Wilkins
HALLIBURTON COMPANY EMPLOYEE

STATE OF TEXAS

COUNTY OF Refugio

BEFORE ME, the undersigned authority, on this day personally appeared G.H.Wilkins known to me to be the person whose name is subscribed to this statement; who, after being duly sworn upon oath states: That to the best of his knowledge and belief, the facts as recited above are true and correct.

Given under my hand and Seal ~~this~~ 24 day of October, 19 66.

(NOTARY SEAL)

Notary Public in and for Refugio County, Texas

Form 1800 - 5-65

0 1 1 0 1 4 0

AFFIDAVIT ON CEMENTING

STATE OF TEXAS }
COUNTY OF Refugio }

I, E.W.Clowers, being of lawful age do state that I am employed by Halliburton Company in the capacity of Cementer, and that on the 2 day of October, 19 66, Halliburton Company performed a cementing service on the production stringx of casing in Well Number B 23, L.T.Barrow lease, located in Refugio County, Texas, for Humble Oil & Ref.Co. (Customer).

Information provided me by the customer, his agent or representative, states that one (1) stringx of casing, size 2 7/8" OD were set in 6 3/4" (Size) drilled hole and through 537' (No. Feet) surface pipe, casing depths being 5585'.

Cement and admixes used were: 1200 Sacks Pozmix 10% Gel & 170 Portland 8% Gel and 48# H R-7.

AFFIANT E.W. Clowers
HALLIBURTON COMPANY EMPLOYEE

STATE OF TEXAS }
COUNTY OF Refugio }

BEFORE ME, the undersigned authority, on this day personally appeared E.W.Clowers known to me to be the person whose name is subscribed to this statement; who, after being duly sworn upon oath states: That to the best of his knowledge and belief, the facts as recited above are true and correct.

Given under my hand and Seal this 3 day of October, 19 66.

(NOTARY SEAL)

RECEIVED
SAN ANTONIO, TEXAS

J. F. E. [illegible]
Notary Public in and for Refugio County, Texas

Form 1800 - 5-65

Fo. #0848 ISE #02907

011 0141

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

File No. _____ Form 2 Well Record

Operator Humble Oil & Refining Company Address Wilson Tower, Corpus Christi, Texas 78401

County Bee Survey M. De Los Santos (A-64) Block No. - Sec. No. -

Lease Name Laura T. Barrow "B" Well No. 23 Elevation _____ (Above Sea Level)

Name of Field in which well is located Laura Thomson (5600' No. 4)

Form 1 (Notice of Intention to Drill) Was Filed in Name of Humble Oil & Refining Company

Is this a NEW WELL? Yes DEEPENING? _____ or a WORK-OVER? _____

If this is a NEW WELL, show when drilling commenced and when drilling was completed.

If this is a PLUG-BACK or DEEPENING operation to a different reservoir, show when work-over commenced and when completed.

(Work-Over) (Drilling) Commenced September 27, 1966 (Work-Over) (Drilling) Completed October 4, 1966

Correspondence regarding this well should be sent to: Name Mr. W. J. Barrett Address Wilson Tower, Corpus Christi, Texas 78401

Has an allowable been assigned to this well? No

SIZE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
7 5/8"	526.32		None		526.32		Guide shoe & nipple
2 7/8"	5576.51		None		5576.51		Guide shoe & landing collar

Initial Production of Gas—Volume 160 MCF 24 hrs. Pressure 1000 lbs. per square inch

Initial Production of Oil: Barrels 108.20

Initial Production of Distillate: Barrels _____

Is this an OIL well? Yes, a GAS well? _____, or a Dry HOLE? _____

DESCRIPTION OF PROPERTY

NORTH

850' NW of Well #7 and 933' NE of Well #17; also being 946' SW of Well #8 and approximately 3200' SE of the NW line of the lease.

WEST

EAST

SOUTH

GENERAL REMARKS

Drilled by Dillingham Drilling Co., Rig No. 1.

RECEIVED
OCT 9 1966
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Surface sand & gravel	0	600	
Citronelle	600	1500	
Lagarto	1500	2350	
Oakville	2350	3070	
Catahoula	3070	3900	
Frio	3900	5585	
Total Depth		5585	

Method of shutting off water casing and cement is water completely shut off? Yes

Amount of water with oil Trace per cent

I, R. H. Bomar, Jr.

being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

[signature]

Representative of Company.

Subscribed and sworn to before me this 25th day of October, 19 66

Notary Public

County, Texas.

MAP ID #85

API# 42-025-01561
OIL WELL
PLUGGED

(85)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. (if available) 0025-01561

1. RRC District: 02

4. RRC Lease or Id. Number: 07800

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records): Laura Thomson (5600 #3)

3. Lease Name: Barrow, Laura T. 'B' -88

5. Well Number: 8

6. OPERATOR: Mueller Engineering Corp.

6a. Original Form W-1 Filed in Name of: Humble Oil & Refining Co.

10. County: Bee

7. ADDRESS: 1010 Tower II, Corpus Christi, TX 78478

6b. Any Subsequent W-1's Filed in Name of: Mueller Engineering Corp.

11. Date Drilling Permit Issued: 4/26/63

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 1550 Feet From NW Line and 6550 Feet From SW Line of the L.T. Barrow "B" Lease

12. Permit Number: 364687

9a. SECTION, BLOCK, AND SURVEY: M De Los Santos A-64

9b. Distance and Direction From Nearest Town in this County: 8 miles NE of Papalote

13. Date Drilling Commenced: 5/4/63

16. Type Well (Oil, Gas, Dry): Oil

Total Depth: 5630

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 5/15/63

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 10/13/98

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	10-13	10-13	10-13	10-13				
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8	2 7/8	2 7/8	2 7/8				
21 Depth to Bottom of Tubing or Drill Pipe (ft.)	5200	1500	1000	150				
*22 Sacks of Cement Used (each plug)	10	10	10	5				
*23 Slurry Volume Pumped (cu. ft.)	11.8	11.8	11.8	5.90				
*24. Calculated Top of Plug (ft.)	4900	1200	700	5				
25. Measured Top of Plug (if tagged) (ft.)	-	-	-	-				
*26 Slurry Wt. #/Gal.	15.6	15.6	15.6	15.6				
*27. Type Cement	H	H	H	H				

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
5/8	26.40	501	498	9 7/8
27/8	6.5	5623	5620	6 3/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed)

RECORD CODIFICATION
DEC 03 1998

Return to Records Retention

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 5527	TO 5532	FROM	TO
FROM 5507.5	TO 5509.5	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Pat's P & A, Inc.
Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Arlene Judd
REPRESENTATIVE OF COMPANY

Administrative Asst. 10/16/98
TITLE DATE

Phone 512/883-1911
NUMBER

RECEIVED
R.R.C. OF TEXAS
OCT 19 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — [X] Yes [ ] No

32. How was Mud Applied? Circulasted thru workstring

33. Mud Weight 10.0 LBS/GAL

34. Total Depth 5630

Depth of Deepest Fresh Water 1400

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	950

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
Pat's P & A, Inc. P.O. Box 0126, Bishop, TX 78343

Date RRC District Office notified of plugging 10/12/98

38. Name(s) and Address(es) of Surface Owners of Well Site
Mr. Thomas D. Barrow
5847 San Felipe, Suite 3830
Houston, Texas 77057

39. Was Notice Given Before Plugging to the Above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:
[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Notified Eugene w/RRC on setting all plugs.

Type or print only

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

RECEIVED R.R.C. OF TEXAS
JUN 26 1992
AUSTIN, TEXAS

Form W-2
Rev. 4/1/83
483-046

API No 42-025-01561

Oil Well Potential Test, Completion or Recompletion Report, and Log

7 RRC District No: 02
8 RRC Lease No: 07800
9 Well No: 8
10 County of well site: BEE
11 Purpose of filing: Initial Potential [ ] Retest [ ] Reclass [X] Well record only (explain in Remarks) [ ]

1 FIELD NAME (as per RRC Records or Wildcat): LAURA THOMSON (5600 #3 SD)
2 LEASE NAME: LAURA T. BARROW "B"-88
3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP.
RRC Operator No: 592645
4 ADDRESS: 1010 FIRST CITY TOWER II CORPUS CHRISTI TX 78478-0501
5 If Operator has changed within last 60 days, name former operator:
6a Location (Section, Block, and Survey): M. DE LOS SANTOS A-64
6b Distance and direction to nearest town in this county: 7.5 MILES NE OF PAPALOTE
12 If workover or reclass, give former field (with reservoir) & gas ID or oil lease no. FIELD & RESERVOIR: LAURA THOMSON (5600 #3 SD)
GAS ID or OIL LEASE #: 132384
Oil - O Gas - G: G
WELL NO: 8
13 Type of electric or other log run: N/A
14. Completion or recompletion date: N/A (Re-Classification)

6/1/92

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15 Date of test	16 No of hours tested	17 Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)	18 Choke size
06/18/92	24	Gas Lift	6/64"

	Oil - BBLS	Gas — MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19 Production during Test Period ▶	35	20	0	.57	60 PSI
20 Calculated 24-Hour Rate ▶	35	20	0	Oil Gravity—API—60° 36.8	Casing Pressure 660 PSI

21 Was swab used during this test? Yes [ ] No [X]
22 Oil produced prior to test (New & Reworked wells): N/A
23 Injection Gas—Oil Ratio: 2.86

REMARKS

RECORD CODIFICATION
SEP 29 1992

Dist ofc STAMP To BK 6/25/92 [illegible]

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

[signature] Mueller Engineering
Signature Well Tester — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Nancy Squyres — Production Analyst
Typed or printed name of operator's representative — Title of Person

512 883-1911 — 06 / 24 / 92 — [signature]
Telephone Area Code Number — Date mo. day year — Signature

[illegible] 9/8/92

OK Smc

SECTION II — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☒ Re-Class

25. Permit to Drill, Plug Back or Deepen — DATE — PERMIT NO. 364887
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

26. Notice of Intention to Drill this well was filed in Name of
MUELLER ENGINEERING CORP.

27. Number of producing wells on this lease in this field (reservoir) including this well: 1

28. Total number of acres in this lease:

29. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced: | Completed:

30. Distance to nearest well, Same Lease & Reservoir: ~~N/A~~ 4200

31. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1550 Feet From NW Line and 6550 Feet from SW Line of the Laura T. Barrow "B" Lease

32. Elevation (DF, RKB, RT, GR, ETC.): 121' RKB

33. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒ No

34. Top of Pay	35. Total Depth	36. P. B. Depth	37. Surface Casing Determined by:		
5507.5'	5630'	5520'	Field Rules ☐	Recommendation of T.D.W.R. ☒ / Railroad Commission (Special) ☐	Dt. of Letter 01/23/87

38. Is well multiple completion? NO

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
N/A			

40. Intervals Drilled by: Rotary Tools | Cable Tools

41. Name of Drilling Contractor: N/A

42. Is Cementing Affidavit Attached? ☐ Yes ☒ No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
7-5/8"	20#	501'	--	125sx Class A	9-7/8"	Surface	240
2-7/8"	6.4#	5623'	--	454sx Class H + gel	6-3/4"	Surface	554

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From	5507.5'	To	5509.5'
From		To	
From		To	
From		To	

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS

P 02

RECLASS OR WORKOVER

OPERATOR: Mueller Engineering Corp.

LEASE NAME: Laura T. Barrow -B-

(circle one)

RECLASS OR WORKOVER

From:	To:
FIELD: Laura Thomson (5600 #4)	FIELD: Laura Thomson (5600 #3)
LSE.# OR ID.#: 02907	LSE.# OR ID.#: 132384
WELL #: 8	WELL #: 8
EFFECTIVE DATE: 9-22-89	EFFECTIVE DATE: 9-22-89

CIBP @ 5520' with 20' cmt on Top.

CHANGES IN OIL FIELDS EFFECTING 49B GAS FIELDS

RECORD CODIFICATION
DEC 19 1989

DIST. _____ FIELD NAME _____ FIELD # _____

NPX EXPIRATION -------- New Top Allow _____ Eff. Date _____

NET GOR RULING -------- Daily Gas Limit _____ Eff. Date _____

FIELD RULE ADOPTION --- Top Allow _____ Spacing _____

Acres _____ Diag. _____

Casing _____ Eff. Date _____

LAST WELL IN FIELD SET TO "0" OR PLUGGED

Effective Date _____

MAP ID #86

API# 42-025-01560
SWD
PLUGGED

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev 12/92
EAG0897

No Location Data Available

API NO. (if available) 025-01560

1 RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or Id Number: 02907

2 FIELD NAME (as per RRC Records): Laura Thomson (5600 #4 Sand)

3 Lease Name: Laura T. Barrow -B-

5 Well Number: 7

6 OPERATOR: Mueller Engineering Corporation

6a Original Form W-1 Filed in Name of:

10 County: Bee

7 ADDRESS: 545 N. Upper Broadway, Ste.900, C.C., TX 78476

6b Any Subsequent W-1's Filed in Name of:

11 Date Drilling Permit Issued:

8 Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: Feet From ____ Line and ____ Feet From ____ Line of the ____ Lease

12 Permit Number:

9a SECTION, BLOCK, AND SURVEY: M. de los Santos A-64

9b Distance and Direction From Nearest Town in this County: 22 Miles SE of Beeville

13 Date Drilling Commenced:

16 Type Well (Oil Gas, Dry): Disposal

Total Depth: 5687

17 If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s — GAS ID or OIL LEASE #: ____ Oil-O Gas-G: ____ WELL #: ____

14 Date Drilling Completed:

18 If Gas, Amt of Cond on Hand at time of Plugging:

15 Date Well Plugged: 10-09-01

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19 Cementing Date	10-8	10-8	10-8	10-8	10-9			
20 Size of Hole or Pipe in which Plug Placed (inches)	2 7/8	2 7/8	2 7/8	2 7/8	2 7/8			
21 Depth to Bottom of Tubing or Drill Pipe (ft.)	2600	1550	1000	562	13			
*22 Sacks of Cement Used (each plug)	10	10	10	3	1			
*23 Slurry Volume Pumped (cu. ft.)	11.8	11.8	11.8	6.54	1.18			
*24 Calculated Top of Plug (ft.)	2238	1450	900	462	3			
25 Measured Top of Plug (if tagged) (ft.)	-	-	-	-	-			
*26 Slurry Wt. #/Gal	15 6	15 6	15.6	15.6	15.6			
*27 Type Cement	H	H	H	H	H			

28 CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.#/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (IN.)
7 5/8	26.40	512	509	9 7/8
2 7/8	6.50	5687	5684	6 3/4
1 1/2	2.75	2600	610	2 7/8 tbg

29 Was any Non-Drillable Material (Other than Casing) Left in This Well? [X] Yes [ ] No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material (Use Reverse Side of Form if more space is needed)

Cut 1 1/2" 2.75# N.U.E. 10rd tbg. @ 2600'.
Otis MR Packer @ 3210'

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	5541	TO	5551	FROM		TO	
FROM	3280	TO	3310	FROM		TO	
FROM		TO		FROM		TO	
FROM		TO		FROM		TO	
FROM		TO		FROM		TO	

RECEIVED
CENTRAL RECORDS
DEC 27 2001
AUSTIN, TEXAS

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information

* Designates items to be completed by Cementing Company Items not so designated shall be completed by Operator

Signature of Cementer or Authorized Representative

Pat's P & A, Inc.
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge

Eduardo A. Rudley — REPRESENTATIVE OF COMPANY

PRESIDENT — TITLE

10/17/01 — DATE

(361) 883-1911 — Phone No. / NUMBER

RECEIVED
R.R.C. OF TEXAS
OCT 19 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

SIGNATURE, REPRESENTATIVE OF RAILROAD COMMISSION

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission	[X] Yes [ ] No	32. How was Mud Applied? Circulated thru 1 1/4" workstring	33. Mud Weight 9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules?	[X] Yes [ ] No
5687	0	950	36. If NO, Explain	
Depth of Deepest Fresh Water - 1500				

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
Pat's P & A, Inc. P.O. Box 0126, Bishop TX 78343

Date RRC District Office notified of plugging 10-05-01

38 Name(s) and Addresse(s) of Surface Owners of Well Site

THOMAS BARROW 5847 SAN FELIPE SUITE 3830 HOUSTON TX 77057

39 Was Notice Given Before Plugging to the Above?
YES

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:
[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*
* Field FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Notified Dan Hill W/RRC on MIRU and setting plugs. Received verbal approval from Pete Peterson to cut 1 1/2" tbg. above stuck pkr.

U/C 000001758 01560

00007 [illegible] RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

SWD Permit dated 9-19-72

Form W-2
Rev. 7/5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (as per RRC Records or Wildcat) Laura Thomson (5600 No. 4 SAND)	2. LEASE NAME Laura T. Barrow "B"	7. RRC District Two
		8. RRC Lease Number 02907
3. OPERATOR Exxon Corporation		9. Well Number 7
4. ADDRESS Wilson Tower, Corpus Christi, Texas		10. County Bee
5. If Operator has changed within last 60 Days -- Give former Operator		11. Purpose of Test: Initial Potential [X] Retest [ ] Reclass [ ]
6. LOCATION (Section, Block, and Survey) M. De Los Santos (A-64)		
12. If Workover -- Give former Field (with Reservoir) Laura Thomson /5600' No. 4/	13. Type of Electric or other Log run	14. Completion Date

Section I NO TEST

POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump)			18. Choke Size
19. Production for Test Period	Oil - BBLS	Gas - MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure PSI
20. Calculated 24 Hour Rate	Oil - BBLS	Gas - MCF	Water - BBLS	Oil Gravity - API - 60°	Casing Pressure PSI
21. Was Swab or Artificial Flowing Device Used During this Test? Yes [ ] No [ ]		22. Oil Produced Prior to Test (New & Reworked Wells)			23. Injection Gas-Oil Ratio

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

SWD Well

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

E. W. Strickland

Signature: REPRESENTATIVE OF COMPANY MAKING TEST

List of Offset Operators Notified:

RECEIVED R.R.C. OF TEXAS SEP 18 1973 O.G. SAN ANTONIO, TEXAS

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

Date of Notification:

RECEIVED R.R.C. OF TEXAS SEP 19 1973 [illegible] TEXAS

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — Grady Coyle — Proration Specialist — 9/17/73

REPRESENTATIVE OF COMPANY — TITLE — DATE

REMARKS

Cancel 14(B)(2) exception

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well [ ] Deepening [ ] Plug Back [XX] Other [ ]

25. Date Permit Issued: 8-30-72

26. Notice of Intention to Drill this Well was filed in Name of: Humble Oil & Refining Company

27. If Special Permit, Give Permit Number:

28. Number of Producing Wells on this Lease in This Field (Reservoir) Including this Well: --

29. Total Number of Acres in this Lease: 6128

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 12-15-72 Completed 12-17-~~73~~ 72

31. Distance to Nearest Well, Same Lease & Reservoir: --

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 5250 Feet From NE of Westerly SW Line And 8700 Feet From NW of Southerly SE Line of The Laura T. Barron "B" Lease

33. Elevation (DF, RKB, RT, GR, ETC): 115' DF

34. Was Directional Survey Made: Yes [ ] No [XX]

35. Top of Pay:

36. Total Depth: 5720

37. P.B. Depth: 3560

38. Surface Casing Determined By: Recommendation of Texas Water Development Board [XX] Field Rules [ ] Railroad Commission (Special) [ ]

39. Is Well Multiple Completion? Yes [ ] No [XX]

40. If Multiple Completion List All Reservoir Names (Completions in this Well):

41. Intervals Drilled By: Rotary Tools Cable Tools

42. Name of Drilling Contractor:

43. Is Cementing Affidavit Attached? Yes [ ] No [X]

44. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
	No Change				

45. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

46. **TUBING RECORD**

Size	Depth Set	Packer Set

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From	3280	To	3310
From		To	
From		To	
From		To	

48. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used
5541-5551	Set CIBP @ 3580' w/20' cement on top of plug.
3280-3310	Acidized w/1500 gallons mud acid.

49. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth
	See Original		

REMARKS: Well recompleted for salt water disposal well.

2-02907

8

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-1
(3-1-70)

API Well No. 42

SPS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

(Check one: ☐ DRILL ☐ DEEPEN ☒ PLUG BACK ☐ OTHER (Specify) _____)

1. Operator
Humble Oil & Refining Company

2. Address (Including City and Zip Code)
Wilson Tower
Corpus Christi, Texas 78401

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES ☒ NO ☐

4. Lease Name
Laura T. Barrow "B"

5. Location (Sec., Blk., Survey)
N. De Los Santos (A-64)

6. This well is to be located 7.5 miles Northeast
Direction from Pearsall, Texas
Nearest Post Office or Town.

7. RRC District
Two

8. County
Boe

9. Well Number
7

10. Number of Acres in Lease
6128

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.)
4,000

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If Yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Penalized locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat Above 5720'	5720	--	467 1200	40	40	No	--	Yes	SWD	--	--

RECEIVED
R.R.C. OF TEXAS
AUG 29 1972
D.O.
SAN ANTONIO, TEXAS

R.R.C. OF TEXAS
AUG 30 1972

0230010

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS: To be completed for salt water disposal from
3100-3895.

CERTIFICATE
I declare under penalties prescribed in Article 6036c, V. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

Signature D. R. Jackson
Title Accountant
Date August 28, 1972
Telephone: Area Code 512 884-4571

OK
BB

- OVER -

In Laura Thompson Fld N

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 7/5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (5600 No. 4 Sand)	2. LEASE NAME: Laura T. Barrow "B"
3. OPERATOR: Exxon Corporation	7. RRC District: Two
4. ADDRESS: Wilson Tower, Corpus Christi, Texas	8. RRC Lease Number: 02907
5. If Operator has changed within last 60 Days — Give former Operator	9. Well Number: 7
6. LOCATION (Section, Block, and Survey): M. De Los Santos (A-64)	10. County: Bee
12. If Wildcat — Give former Field (with Reservoir): Laura Thomson /5600' No. 4/	13. Type of Electric or other Log run
	14. Completion Date
	11. Purpose of Test: Initial Potential ☐ Retest ☐ Recleas ☐

Section I NO TEST

POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping — Size & Type of Pump)			18. Choke Size
19. Production for Test Period	Oil — BBLS	Gas — MCF	Water — BBLS	Gas — Oil Ratio	Flowing Tubing Pressure PSI
20. Calculated 24 Hour Rate	Oil — BBLS	Gas — MCF	Water — BBLS	Oil Gravity — API — 60°	Casing Pressure PSI
21. Was Swab or Artificial Flowing Device Used During this Test? Yes ☐ No ☐		22. Oil Produced Prior to Test (New & Reworked Wells)			23. Injection Gas-Oil Ratio

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

E. W. Strickland
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified:

Date of Notification:

RECEIVED
SEP 14 1973
SAN ANTONIO, TEXAS

APR 5 1974

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — Proration Specialist — 9/12/73
REPRESENTATIVE OF COMPANY — TITLE — DATE

REMARKS

OPERATOR'S COPY

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

25. Date Permit Issued: 8-30-72

26. Notice of Intention to Drill this Well was filed in Name of: Humble Oil & Refining Company

27. If Special Permit, Give Permit Number:

28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: --

29. Total Number of Acres in this Lease: 6128

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 12-15-72; Completed 12-17-73

31. Distance to Nearest Well, Same Lease & Reservoir: --

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 5250 Feet From NE of Westerly SW Line And 8700 Feet From NW of Southerly SE Line of The Laura T. Barron "B" Lease

33. Elevation (DF, RKB, RT, GR, ETC): 115' DF

34. Was Directional Survey Made: Yes ☐ No ☒

35. Top of Pay:

36. Total Depth: 5720

37. P.B. Depth: 3560

38. Surface Casing Determined By: Recommendation of Texas Water Development Board ☒ Field Rules ☐ Railroad Commission (Special) ☐

39. Is Well Multiple Completion? Yes ☐ No ☒

40. If Multiple Completion List All Reservoir Names (Completions in this Well):

41. Intervals Drilled By: Rotary Tools: Cable Tools:

42. Name of Drilling Contractor:

43. Is Cementing Affidavit Attached? Yes ☐ No ☒

44. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
	No Change				

45. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

46. **TUBING RECORD**

Size	Depth Set	Packer Set

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole:

From	3280	To	3310
From		To	
From		To	
From		To	

48. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used
5541-5551	Set CIBP @ 3580' w/20' cement on top of plug.
3280-3310	Acidized w/1500 gallons mud acid.

49. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth
	See Original		

REMARKS: Well recompleted for salt water disposal well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

BYRON TUNNELL, Chairman
JIM C. LANGDON, Commissioner
BEN RAMSEY, Commissioner

ARTHUR H. BARBECK
Chief Engineer

CAPITOL STATION - P. O. DRAWER 12967 - AUSTIN, TEXAS 78711

September 19, 1972

Humble Oil and Refining Co.
Wilson Tower
Corpus Christi, Texas 78403

Gentlemen:

This will acknowledge receipt of your "Application to Dispose of Salt Water by Injection into a Porous Formation not Productive of Oil or Gas" covering the well designated thereon as follows:

RAILROAD COMMISSION DISTRICT: 2 - San Antonio

OPERATOR: Humble Oil and Refining Co.

LEASE: Laura T. Barker "B" (02907) WELL NO. 7

FIELD: Laura Thomason (3600 No. 4 Sand) COUNTY: Bee

Based upon ~~our understanding of the~~ representations made thereon and those made on any attached papers filed therewith, it is believed that the operation indicated will not cause damage of oil, gas, or fresh water resources and permission to dispose of salt water into the above named well is hereby granted; provided, however, that prior to the injection of water and for the duration of its use for injection purposes, the well be so cased and completed that water can enter no other formation than the strata encountered in said well with the depth interval from 3100 feet to 3695 feet. It is required that the subject well be equipped with an above ground bradenhead observation valve.

Any permission to inject water into this well previously granted is herewith cancelled and shall have no further force or effect.

In the event the above captioned well is presently carried on the proration schedule, you are requested to notify the Commission, in writing as to the date said well is to be removed therefrom unless this is a dual (producing well and a salt water disposal well). In which case you will be required to receive multiple completion authority if the injection string is part of a multiple completion. Further, it is required that Form P-4 be filed when a change of operator occurs.

Yours very truly,

Arthur H. Barbeck
Chief Engineer

By: Tom Hays
Tom Hays
Engineer

NOTE: Annual casing pressure test with packer required. Report test results to RRC District Office.

TH:tr
cc: RRC- San Antonio
Texas Water Quality Board

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-14
Rev. 6-10-64

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION NOT PRODUCTIVE OF OIL OR GAS

1. Operator: Humble Oil & Refining Company		2. Address: Wilson Tower, Corpus Christi, Tx. 78403	3. District: 2
4. Lease Name and Lease or Identification No.: Laura T. Barrow "B" (02907) ~~(03345)~~	5. Well No.: 7	6. Field: Laura Thomson (5600 #4 Sand)	7. County: Bee
8. Location: M. De Los Santos Survey (A-64)			Sec.-Twp-Rge or Block & Survey

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
9. Surface Casing	7-5/8	512	125 sacks, 940#Gel	Surface	Calculation
10. Intermediate					
11. Long String	2-7/8	5687	430 sks.,11,500# Diacel D,1700#Gel	Surface	Calculation
12. Tubing	None		13. Name, Model and Depth of Tubing Packing		

14. Depth to Top of Injection Zone: 3100	15. Depth to Bottom of Injection Zone: 3895
16. Is Injection through Tubing, Casing or Annulus? Casing	17. Perforations or Open Hole? Perforations
18. Is this a new well Drilled for Disposal? No	
19. List all Cement Squeeze Operations, Giving Interval and Number Sacks Cement: Perfs at 5543-53 sqzd. with cement top at 5,000'; hole at 3892 sqzd.	
20. Depth of Deepest Fresh Water Zone: 1600'	21. Depth of Shallowest Zone Productive of Oil or Gas in This Field: 2600'
22. Anticipated Daily Injection Volume (bbls.) — Minimum: 500 — Maximum: 2500	23. Open or Closed System? Closed
24. Is Injection to be by Gravity or Pressure? Pressure	25. Approx. Pressure (Psi): 800
26.	
27. Will it be necessary for water to be filtered or chemically treated? Yes / No: No	28. Is this well so cased and completed that water can enter no other formation than the above set out injection zone? Yes or No: Yes
29. Have notices of this application been mailed or given to all offset operators? Yes / No	30. NAME AND ADDRESS OF SURFACE OWNER: Mr. L. T. Barrow, 3314 Chevy Chase Dr., Houston, Tx.
31. Are there any other Salt Water Disposal Wells using this same Zone in this Field? Yes or No: Yes	32. If so name one such well below: L. T. Barrow "B" 10
33. Name of Operator of Disposal Well in same zone: Humble Oil & Refining Company	34. Lease Name: L. T. Barrow "B" — 35. Well No.: 10
36. List Name and Addresses of all offset Operators: Harkins & Company, Box 1490, Alice, Texas 78332	

HUMBLE OIL & REFINING COMPANY
37. OPERATOR

State of Texas)
County of Nueces)

Signature of Affiant

Before me, the undersigned authority, on this day personally appeared R. J. Lee known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Subscribed and sworn to before me this 16th day of August, 19 72.

SEAL

Gladys L. Kenne GLADYS L. KENNE

My commission expires 6/1/73

Notary Public in and for Nueces County, Texas

JM/trh

(See Reverse Side for Instructions)

oil Fld # 00485130

2-02907

P 7 1972
AUSTIN, TEXAS

INSTRUCTIONS

1. Attach complete electrical log of this well.
2. Attach letter from the Texas Water Commission.
3. Attach waivers from all offset operators.
4. Attach waivers from surface owners of land on which well is located or a letter from company making application to the surface owner explaining said application and requesting waiver.
5. No application will be processed until instructions 1 and 2 have been complied with. Should all waivers in instructions 3 and 4 not accompany application, the Engineering Department of the Commission shall hold such application for a period of ten (10) days from date of receipt in the Austin Office. If, after said ten (10) day period, no protest or request for hearing is received in the Austin Office, the application will then be processed.
6. Approval of this application, if granted, is valid only so long as there is no substantial change in the operations set forth in such application. A substantial operation change requires the approval of a new application.

0534 1793

HUMBLE OIL & REFINING COMPANY

WILSON TOWER • CORPUS CHRISTI, TEXAS 78401

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

September 5, 1972

Application to Dispose of Salt Water By Injection Into a Porous Formation Not Productive of Oil or Gas, Laura T. Barrow "B" Well No. 7, M. De Los Santos Survey (A-64), Laura Thomson Field, Bee County, Texas

Mr. Tom Hays
Railroad Commission of Texas
P. O. Drawer 12967
Capitol Station
Austin, Texas 78711

Dear Sir:

Humble Oil & Refining Company proposes to convert Laura T. Barrow "B" Well No. 7, Laura Thomson Field, Bee County, Texas for use as a salt water disposal well.

As shown by the attached Form W-14, the well has 7-5/8" casing set at 512' and cemented to the surface of the ground with 125 sacks of cement. A string of 2-7/8" casing was set in the well at 5687' and cemented to the surface with 430 sacks of cement. We propose to inject salt water into a formation not productive of oil or gas from 3100-3895' through 2-7/8" casing.

We are attaching the following data for your information:

- Form W-14 with diagrammatic sketch
- copy of letter from Texas Water Quality Board dated August 30, 1972
- map of the lease
- electric log of Laura T. Barrow "B" Well No. 7
- copy of letter to the surface owner of the land dated September 5, 1972
- copy of letter to offset operator requesting waiver dated September 5, 1972

We respectfully request approval to use this well as a salt water disposal well as explained.

Yours very truly,

Grady Coyle

Grady Coyle, Proration Specialist
Oil and Gas Accounting Section

GC:ebc
cc: Mr. R. E. Beatty, Jr. - RRC, San Antonio
Mr. R. J. Lee
Attachments

AUSTIN, TEXAS

2-0796

0034 1794

HUMBLE OIL & REFINING COMPANY

WILSON TOWER • CORPUS CHRISTI, TEXAS 78401

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

September 5, 1972

Application to Dispose of Salt Water By Injection Into a Porous Formation Not Productive of Oil or Gas, Laura T. Barrow "B" Well No. 7, M. De Los Santos Survey (A-64), Laura Thomson Field, Bee County, Texas

Harkins & Company
Box 1490
Alice, Texas 78332

Gentlemen:

Humble Oil & Refining Company proposes to convert Laura T. Barrow "B" Well No. 7, M. De Los Santos Survey (A-64), Laura Thomson Field, Bee County, Texas for use as a salt water disposal well. We are attaching a copy of Form W-14 which shows that the well is properly equipped for salt water disposal purposes.

If you have no objection to our proposal, it is requested that the attached waiver be signed and returned to Humble Oil & Refining Company, Wilson Tower, Corpus Christi, Texas 78401, Attention: Mr. Grady Coyle.

Yours very truly,

Grady Coyle

Grady Coyle, Proration Specialist
Oil and Gas Accounting Section

CC:ebc

Attachments

2-2107

0 0 3 4 1 7 9 5

W A I V E R

September 5, 1972

Railroad Commission of Texas
P. O. Drawer 12967
Capitol Station
Austin, Texas 78711

Gentlemen:

The undersigned hereby waives objection to Humble Oil & Refining Company's proposal to convert their Laura T. Barrow "B" Well No. 7, M. De Los Santos Survey (A-64), Laura Thomson Field, Bee County, Texas for use as a salt water disposal well.

Yours very truly,

HARKINS & COMPANY

By_____

Title_____

Date_____

2-02407

0034 1796

September 5, 1972

Application to Dispose of Salt Water By Injection Into a Porous Formation Not Productive of Oil or Gas, L. T. Barrow "B", Well No. 7, M. De Los Santos Survey (A-64), Laura Thomson Field, Bee County, Texas

Mrs. Laura T. Barrow
3314 Chevy Chase Drive
Houston, Texas 77001

Dear Mrs. Barrow:

Humble Oil & Refining Company proposes to convert L. T. Barrow "B", Well No. 7, M. De Los Santos Survey (A-64), Laura Thomson Field, Bee County, Texas for use as a salt water disposal well. This well has casing set and cemented to the surface of the ground for the protection of all fresh water sands.

Since you are the owner of the land where the well is located, we would appreciate your signing this letter and returning one copy to this office for further handling with the Railroad Commission of Texas.

A copy is enclosed for your files.

Yours very truly,

GRADY COYLE

Grady Coyle, Proration Specialist
Oil and Gas Accounting Section

GC:abc
Enclosure

APPROVED:

MRS. LAURA T. BARROW

_____

Date_____

RECEIVED
SEP 7 1972
AUSTIN, TEXAS

2-2907

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

D-12 Log Sent

Form W-14
Rev. 6-10-64

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION NOT PRODUCTIVE OF OIL OR GAS

1. Operator	2. Address	3. District
Humble Oil & Refining Company	Wilson Tower, Corpus Christi, Tx. 78403	2

4. Lease Name and Lease or Identification No.	5. Well No.	6. Field	7. County
Laura T. Barrow "B" (03345)	7	Laura Thomson	Bee

8. Location (See Twp-Rge or Block & Survey)
M. De Los Santos Survey (A-64)

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
9. Surface Casing	7-5/8	512	125 sacks, 940#Gel	Surface	Calculation
10. Intermediate					
11. Long String	2-7/8	5687	430 sks.,11,500# Diacel D,1700#Gel	Surface	Calculation
12. Tubing	None		13. Name, Model and Depth of Tubing Packing		

14. Depth to Top of Injection Zone	15. Depth to Bottom of Injection Zone
3100	3895

16. Is Injection through Tubing, Casing or Annulus?	17. Perforations or Open Hole?	18. Is this a new well Drilled for Disposal?
Casing	Perforations	No

19. List all Cement Squeeze Operations, Giving Interval and Number Sacks Cement
Perfs at 5543-53 sqzd. with cement top at 5,000'; hole at 3892 sqzd.

20. Depth of Deepest Fresh Water Zone	21. Depth of Shallowest Zone Productive of Oil or Gas in This Field
1600'	2600'

22. Anticipated Daily Injection Volume (bbls.)	Minimum	Maximum	23. Open or Closed System?
	500	2500	Closed

24. Is Injection to be by Gravity or Pressure?	25. Approx. Pressure (Psi)	26.
Pressure	800	

27. Will it be necessary for water to be filtered or chemically treated? Yes No	28. Is this well so cased and completed that water can enter no other formation than the above set out injection zone? Yes or No
No	Yes

29. Have notices of this application been mailed or given to all offset operators? Yes No	30. NAME AND ADDRESS OF SURFACE OWNER
	Mr. L. T. Barrow, 3314 Chevy Chase Dr., Houston, Tx.

31. Are there any other Salt Water Disposal Wells using this same Zone in this Field?	Yes or No	32. If so name one such well below
	Yes	L. T. Barrow "B" 10

33. Name of Operator of Disposal Well in same zone	34. Lease Name	35. Well No.
Humble Oil & Refining Company	L. T. Barrow "B"	10

36. List Name and Addresses of all offset Operators

HUMBLE OIL & REFINING COMPANY
37. OPERATOR

R. J. Lee
Signature of Affiant

State of Texas)
County of Nueces)

Before me, the undersigned authority, on this day personally appeared R. J. Lee known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Subscribed and sworn to before me this 16th day of August 19 72.

SEAL

My commission expires 6/1/73

Gladys L. Kenne
Notary Public in and for Nueces County, Texas

JM/trh

(See Reverse Side for Instructions)

R.R.C. TEXAS
AUSTIN, TEXAS

Log Rec'd

GORDON FULCHER
Chairman
LESTER CLARK
Vice-Chairman
J. DOUG TOOLE
MARTY P. BURLEIGH

TEXAS WATER QUALITY BOARD

JAMES U. CROSS
J. E. PEAVY, MD
BYRON TUNNELL
HUGH C. YANTIS, JR.
Executive Director
PH. 475-2651
A.C. 512

314 WEST 11TH STREET 78701
P.O. BOX 13246 CAPITOL STATION 78711
AUSTIN, TEXAS

August 30, 1972

RE: Application to Dispose of Salt Water by Injection, Humble Oil & Refining Company, Laura T. Barrow "B" Well No. 7, M. De Los Santos Survey A-64, Bee County (D-12)

Humble Oil & Refining Company
Wilson Tower
Corpus Christi, Texas 78403

Gentlemen:

We have reviewed the above-referenced application for a Railroad Commission permit to dispose of produced salt water into subsurface strata in the interval from 3,100 to 3,895 feet. This program offers no predictable hazard to usable-water resources provided all boreholes penetrating the injection interval in the area of this well are adequately cased and cemented, or plugged below all strata containing usable groundwater and provided periodic pressure tests are performed on the long string casing. Groundwater considered to be of usable quality occurs to a subsurface depth of approximately 1,600 feet in the area of this well.

According to information contained in the application, the well is cased and completed with 7-5/8 inch O.D. surface casing set at 512 feet with the top of cement calculated at the surface; and 2-7/8 inch O.D. long string casing set at 5,687 feet with top of cement calculated at the surface. This letter is conditional upon submitting proof to the Railroad Commission that cement was circulated to the surface behind the long string casing. Injection will be through the 2-7/8 inch long string casing.

In lieu of our recommended casing pressure tests, injection may be maintained through tubing set in a packer immediately above the injection zone.

Very truly yours,

Robert B. Hill

Robert B. Hill, Head
Subsurface Section

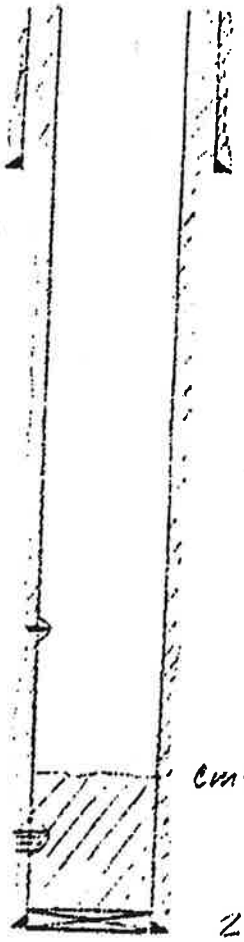
JWB:bl

cc + encl.: Railroad Commission of Texas
cc: Water Quality Board District 12

L-06201-C

0 0 3 4 1 8 0 2

Laura T. Barrow B-7
Laura Thomson Field
8-11-72



7 5/8, J-55 20#/ft at 512'
cemented with
125 sx, 940# Gel

Salt Water Disposal Zone
3100 - 3895

Hole at
3892 SQZD

5600' Sd
5543-53

cmt top at 5000±

2 7/8 6.5#/ft J55 at 5687
cemented with
280 sx w/ 11,500# Diacel D
150 sx w/ 1700# Gel

L0202-2

MAP ID #87

API# 42-025-02453
OIL WELL
PLUGGED

02453

Plugging Record 0 0 0 0 7 0 0 0 0 8 RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 7/7/75

1. RRC District	2
4. RRC Lease or Id. Number	02907

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records) LAURA THOMSON (5600 #4 SD)	3. LEASE NAME LAURA T. BARROW "B"	5. Well Number 10-D & E
6. OPERATOR EXXON CORPORATION		10. County BEE
7. ADDRESS WILSON TOWER, CORPUS CHRISTI, TEXAS 78475		11. Date Drilling Permit Issued 5-27-63
8. SURFACE LOCATION 5075 FEET FROM NW LINE, AND 7700 FEET FROM N LINE		12. Date Drilling Commenced 6-9-63
9a. SECTION, BLOCK, AND SURVEY M. DE LOS SANTOS (A-64)	9b. Distance and Direction to nearest town in this county. 8 mi. NE of PAPALOTTE	13. Date Drilling Completed 7-2-63
15. Type of Well (Oil, Gas, Dry)* OIL	16. Type of Completion (Single, Dual, Etc.) SINGLE	17. Total Depth 5695
14. Date Well Plugged 12-7-77		

18. FORM W-1 (Intention to Drill) Filed in Name of EXXON CORPORATION

19. Manner of Placement

PLUG #1	160	SACKS	TOP 04	BOTTOM 2513	TYPE CLASS H
PLUG #2	55	SACKS	TOP 04	BOTTOM 2513	TYPE CLASS H
PLUG #3	5	SACKS	TOP 04	BOTTOM 35	TYPE CLASS H
PLUG #4		SACKS	TOP	BOTTOM	TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission YES [X] NO [ ]

21. How was Mud applied? PUMPED

22. Mud Weight 9.5 LBS/GAL

23. Depth of Deepest Fresh Water 7600 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25. If NO, Explain

26. Name and Address of Party Plugging Well SPARTAN WELL SERVICE, P.O. BOX 1496, CORPUS CHRISTI, TX 78403

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8-5/8-9-5/8	507.32		502.32	
2-1/8	5670.79		5666.79	
2-7/8	5663.29		5659.29	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

NONE

29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ]

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — PRORATION SPECIALIST — FEB 21 1978

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

RECEIVED R.R.C. OF TEXAS FEB 24 1978 OG SAN ANTONIO, TEXAS

M-57

30 For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date FEB 27 1978

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS _____

0 0 0 0 7 0 0 9 2 0

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-60)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thompson Field	*2. RRC District #2
*3. Operator Exxon Company USA	*4. County Refugio
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Laura T Barrow	*6. Well Number #B-10
*7. Location (Section, Block, and Survey)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "RI MARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	12-6-77	12-6-77	12-7-77			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8	2 7/8	2 1/8 8 7/8			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2513'	2513'	35'			
22. Sacks of Cement Used (each plug)	160	55	5			
23. Slurry Volume Pumped (cu. ft.)	176.0	60.5	5.5			
24. Calculated Top of Plug (ft.)	04'	04'	04'			
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. OF TEXAS
FEB 2 1 1978
SAN ANTONIO, TEXAS

2-02907

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

26. Remarks:

Squeezed 160 sks. down F-string back to surface. Pumped 55 sks. thru 1-¼" tbg. from 2513' - 04'. Pumped 5 sks. around surface csg. & string D.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036e, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing date and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Rodney Johnson

Signature of Cementer or Authorized Representative

Rodney Johnson Agent

Name of Person and Title (type or print)

Spartan Well Service, Inc.

Cementing Company

PO Box 1496

Street Address or P.O. Box

Corpus Christi, Tex. 78403

City, State Zip Code

Telephone 512 883-1838

Area Code

February 14, 1978 COPY

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036e, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Brady Coyle

*Signature of Operator or Authorized Representative

*GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

*EXXON CORPORATION

*Operator

*WILSON TOWER

*Street Address or P.O. Box

*CORPUS CHRISTI, TX 78476

*City, State Zip Code

*Telephone 512-884-4571

Area Code

*FEB 21 1978

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

MAP ID #88

API# 42-025-30093
DRY HOLE

(88)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
4. RRC Lease or Id. Number:

2. FIELD NAME (as per RRC Records): LAURA THOMSON
3. LEASE NAME: LAURA T. BARROW "B"
5. Well Number: 26
6. OPERATOR: HUMBLE OIL & REFINING CO.
10. County: BEE
7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TX 78401
11. Date Drilling Permit Issued: 2-26-71
8. SURFACE LOCATION: 4750 FEET FROM S6 LINE, AND 6750 FEET FROM N6 LINE
12. Date Drilling Commenced: 4-5-71
9. SECTION, BLOCK, AND SURVEY: MIGUEL DE LOS SANTOS (A-64)
13. Date Drilling Completed: 4-19-71
15. Type of Well (Oil, Gas, Dry)*: DRY
16. Type of Completion (Single, Dual, Etc.): SINGLE
17. Total Depth: 5912
14. Date Well Plugged: 4-22-71
18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19. Manner of Placement

PLUG #1	350	SACKS	TOP	SURFACE	BOTTOM	0 FT	TYPE CLASS H
PLUG #2		SACKS	TOP		BOTTOM		TYPE
PLUG #3		SACKS	TOP		BOTTOM		TYPE
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]
21. How was Mud applied? PUMPED
22. Mud Weight: 11.1 LBS/GAL
23. Depth of Deepest Fresh Water: 1250 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]
25. If NO, Explain:
26. Name and Address of Party Plugging Well: BYRON JACKSON INC., P.O. BOX 4027, CORPUS CHRISTI, TX 78401
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8-5/8	606		606	
2-3/8	1709		1709	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases:

29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RAILROAD COMMISSION

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Mary Coyle — REPRESENTATIVE OF COMPANY
PRORATION SPECIALIST — TITLE
MAY 7, 1971 — DATE

Signature of REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED R.R.C. OF TEXAS
MAY 11 1971
SAN ANTONIO, TEXAS

025 30085

*All Dry Holes, Fill in Reverse Side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Laura Thomson	*2. RRC District: 2
*3. Operator: Humble Oil & Refining Company	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Laura T. Barrow "B"	*6. Well Number: 26
*7. Location (Section, Block, and Survey): Miguel De Los Santos (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	4-21-71					
*9. (a) Size of Drill Bit (inches)	11-3/8					
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)	8-5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	613					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	A+4%Gel					
(b) In Second Slurry	A					
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	390					
(b) In Second Slurry	100					
(c) In Third Slurry						
(d) Total Sacks of Cement Used	490					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	1.52					
(b) In Second Slurry	1.17					
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	593					
(b) In Second Slurry	117					
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	710					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	2367					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	4-22-71					
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-3/8--7-7/8					
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	2150					
22. Sacks of Cement Used (each plug)	350					
23. Slurry Volume Pumped (cu. ft.)	850					
24. Calculated Top of Plug (ft.)	Surface					
*25. Measured Top of Plug (if tagged)						

RECEIVED
R.R.C. OF TEXAS
MAY 11 1971
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks: Humble Oil & Ref. Co.
L.T. Barrow
B-26

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Clarence Stephenson
Signature of Cementer or Authorized Representative

Clarence Stephenson
Name of Person and Title (type or print)

Byron Jackson Inc.
Cementing Company

P.O. Box 4027
Street Address or P.O. Box

Corpus Christi, Texas 78408
City, State Zip Code

Telephone 512 884-6685
Area Code

4-17-71
Date

*OPERATOR

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE, Proration Specialist
*Name of Person and Title (type or print)

Humble Oil & Refining Company
*Operator

Wilson Tower
*Street Address or P.O. Box

Corpus Christi, Texas 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

May 7, 1971
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

FORM W-1
(Rev. 12-16-69)

13

Well No. 42 BEE DIST. 2
API NO. 42 025 30093

SPS APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

7. RRC District: Two

8. County: Bee

1. Operator: Humble Oil & Refining Company

4. Lease Name: Laura T. Barrow "B"

9. Well Number: 26

2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78401

5. Location (Sec., Blk., Survey): Miguel De Los Santos (A-64)

10. Number of Acres in Lease: 6,128

6. This well is to be located 9.5 miles Southwest Direction from Woodsboro, Texas Nearest Post Office or Town.

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): Over 467

3. Is Form 7 in Exact Operator Name Filed? YES [X] NO [ ]

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Laura Thomson (5600 #4)	5530	--	467 1200	40	40	No	--	Yes	Oil	--	--
Wildcat	6700	--	467 1200	40	40	No	--	Yes	Oil	--	--

RECEIVED R.R.C. OF TEXAS FEB 25 1971 U.S. SAN ANTONIO, TEXAS

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS:

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

G. R. Jackson — G. R. Jackson
Signature

Accountant
Title

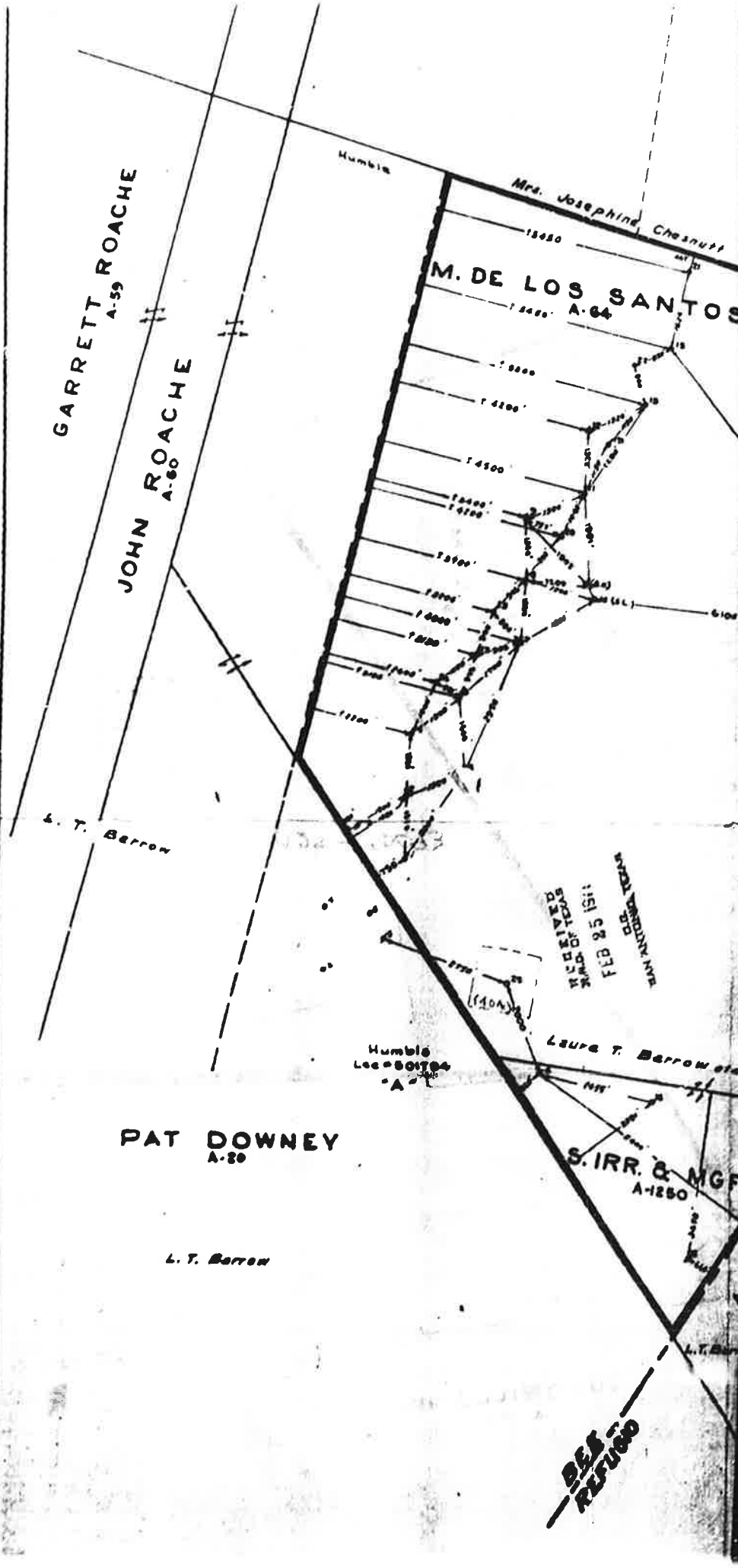
February 24, 1971
Date

Telephone: Area Code 512 884-4571

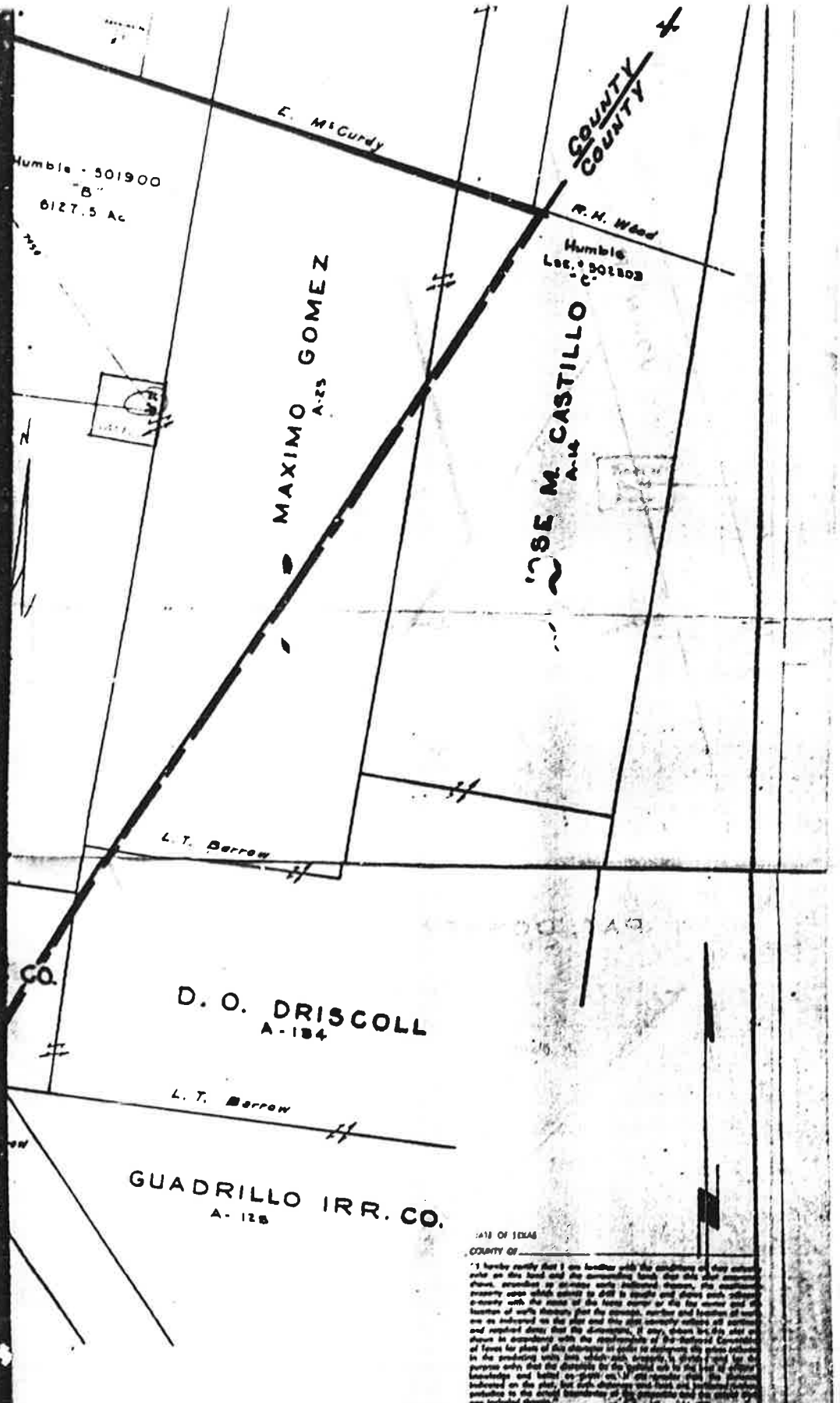
- OVER -

025-30093 67-1200

DR-37



Humble
Mrs. Josephine Chesnutt
M. DE LOS SANTOS
A-64
GARRETT ROACHE
A-59
JOHN ROACHE
A-60
L. T. Barrow
Laura T. Barrow
Humble
Lee #501794
"A"
PAT DOWNEY
A-20
S. IRR. & MGF
A-1250
L. T. Barrow
BEE REFUGIO



STATE OF TEXAS
COUNTY OF

Application For Location Well # B-26

R R COMM.	HUMBLE OIL & REFINING COMPANY
RA T. BARROW Lse. # 501900 "B"	SOUTHWEST REGION
A THOMPSON FIELD BEE CO. TEXAS	PRODUCTION DEPARTMENT
	SOUTH TEXAS DIVISION
CHIEF SECTION CIVIL	SCALE 1" = 2000'
A C Harrell	DATE 8-8-91

MAP ID #89

API# 42-025-32830
GAS WELL
PLUGGED

(89)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

API No. (if available)	1. RRC District
42- 025-32830	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 165389

2. FIELD NAME (as per RRC records): Laura Thompson (4850)	3. Lease Name: Thomson-Barrow Corp. C	5. Well Number: 5
6. OPERATOR: C & E Operating, Inc.	6a. Original Form W-1 filed in name of:	10. County: Bee
7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77498	6b. Any subsequent W-1's filed in name of:	11. Date Drilling Permit Issued: 06/16/1997
8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 9248 feet from east line and 6376 feet from north line of the Thomson-Barrow Corp. C lease		12. Permit Number: 463725
9a. SECTION, BLOCK and SURVEY: Maximo Gomez Grant	9b. Distance and direction from nearest town in this county: 8.4 miles east from Skidmore	13. Date Drilling Commenced: 07/31/1997
16. Type Well (oil, gas, or dry): Gas; Total Depth: 5984; If multiple completion list all field names and oil lease or gas id no.'s; Gas ID or Oil Lease #; Oil - O Gas - G; Well #: 19		14. Date Drilling Completed: 08/16/1997
18. If gas, amt. of cond. on hand at time of plugging		15. Date Well Plugged: 12/10/2010

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date 2010	12/10	12/10	12/10					
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4850	1150	14					
*22. Sacks of Cement Used (each plug)	30	35	5					
*23. Slurry Volume Pumped (cu. ft.)	35.4	41.3	5.9					
*24. Calculated Top of Plug (ft.)	4700	800	4					
25. Measured Top of Plug (if tagged) (ft.)		795						
*26. Slurry Wt. # / Gal.	15.6	15.6	15.6					
*27. Type Cement	H	H	H					

RECEIVED RRC OF TEXAS MAY 13 2011 OIL & GAS DIVISION SAN ANTONIO, TX

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	654	650	12¼
4 ½	10.5	5107		7.875

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

RECEIVED CENTRAL RECORDS OCT 18 2011 AUSTIN, TEXAS

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 4920 TO 4935		FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
*Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Signature of Cementer or Authorized Representative

York Cement & Acid
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Boerma — REPRESENTATIVE OF COMPANY

Office Manager — TITLE

04/20/11 — DATE

PHONE 361 741-3600 — A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING 200

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? [X] Yes [ ] No

32. How was mud applied? Circulated

33. Mud Weight 9.5 LBS/GAL

34. Total Depth 5984

Depth of Deepest Fresh Water 1100

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	850

35. Have all abandoned wells on this lease been plugged according to R R C Rules? [X] Yes [ ] No

36. If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well
York Cmt & Acid 6511 FM 1464 PMB6 Richmond TX 77407

Date RRC District Office notified of plugging 12/09/2010

38. Name(s) and address(es) of surface owners of well site
Thomson-Barrow Corp.
5847 San Felipe
Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs: [ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *
File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

RECEIVED R.R.C. OF TEXAS OCT 10 1997 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Type or print only.

483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42- 025-32830

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7. RRC District No: 02
8. RRC Gas ID No.: 165389
9. Well No.: 5
10. County of well site: Bee

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4850)
2. LEASE NAME: Thompson-Barrow Corp. "C"
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
RRC Operator No.: 120079
4. ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478
5. Location (Section, Block, and Survey): Maximo Gomez Grant A-25
5b. Distance and direction to nearest town in this county.: 8.40 miles East from Skidmore
6. If operator has changed within last 60 days, name former operator
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #
13. Pipe Line Connection: NGPL
14. Completion or recompletion date: 8/19/97
15. Any condensate on hand at time of workover or recompletion? ☐ Yes ☐ No
16. Type of Electric or other Log Run.: Induction

11. Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

Section I — GAS MEASUREMENT DATA

Date of Test: 8/18/'97
Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ | Positive Choke [X] | Orifice Vent Meter ☐ | Pitot Tube ☐ | Critical-flow Prover ☐
Gas produced during test: 168 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		20/64	2.34	605		95.0	0.9680	1.0847	1.0307	1532
2		16/64	1.47	660		90.0	0.9723	1.0847	1.0345	1059
3		14/64	1.116	675		87.0	0.9750	1.0847	1.0360	825
4		12/64	0.802	690		85.0	0.9768	1.0847	1.0373	608

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas): 0.510
Gravity Liquid Hydrocarbon: Deg. API
Gas-Liquid Hydro Ratio: CF/Bbl
Gravity of Mixture G_{mix} = 0.510
Avg. Shut-in Temp.: 124 °F
Bottom Hole Temp.: 173 °F @ 4923 (Depth)

$D_{eff}^{8/3}$ = 6.307
$\sqrt{T_f}$ = $\sqrt{591.125}$ = 24.313
$\sqrt{\quad}$ = $\sqrt{2510.730}$ = 50.107
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = 290.035 = 0.173

RECORD CONFIRMATION FEB 23 1998
Return to Records Retention

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			890	75.0	792				
1	60	20/64	605	95.0	366	264.7	70.1	660.4	0.9162
2	60	16/64	660	90.0	436	183.0	33.5	684.9	0.9637
3	60	14/64	675	87.0	456	142.5	20.3	689.9	0.9784
4	60	12/64	690	85.0	476	105.0	11.0	697.9	0.9886

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0806	1.0820	1.0911	971	942.8	
1	0.9587	0.0760	1.0658	1.0843	716	512.7	430.1
2	0.9819	0.0781	1.0690	1.0871	745	554.4	388.5
3	0.9893	0.0789	1.0703	1.0881	751	563.5	379.3
4	0.9943	0.0795	1.0714	1.0889	760	577.6	365.3

Angle of Slope
θ 45.00
n 1.0000
Absolute Open Flow
3358 ..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

Signature. Well Tester: [signature] | Target Well Services, Inc. (Name of Company) | RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Signature Operator's representative: [signature] | President (Title) | 10/7/97 (Date) | Tel: 281 265-6500 A/C. Number

MAPPING

VALID PERMIT PRODUCTION ALLOCATION 7B

Amended

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

OCT 20 1997

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 6/16/97 — PERMIT NO. 463725

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 2

21. Total number of acres in this lease: 16,692.72

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 7/30 — Completed 8/19/97

23. Distance to nearest well, Same Lease & Reservoir: 8550

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 9248 Feet From East Line and 6376 Feet from North Line of the Thomson-Barrow Corp. C Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 82.6'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: 4920

28. Total Depth: 5985'

29. P. B. Depth: 5062'

30. Surface Casing Determined by: Field [ ] Rules; Recommendation of T.D.W.R. [ ] Railroad Commission (Special) [XX]; Dt. of Letter 6/16/97

31. Is well multiple completion? [ ] Yes [XX] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools XX; Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
4 1/2	10.5	5107'	1704	610 sx H	7 7/8	surface	1066
8 5/8	24	654	-	335 sx A	12 1/4	surface	552

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	4871	4871

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	4920	To	4926
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4920- 26'	Perf 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Catahoula	3410		
Vicksburg	5900		

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

6. RRC District: 02
7. RRC Lease Number, (Oil completions only):
8. Well Number: ~~#~~ 5
9. RRC Identification Number (Gas completions only): 165389
10. County: Bee

1. FIELD NAME (as per RRC Records or Wildcat): Laura THOMSON (4850)
2. LEASE NAME: Thomson-Barrow Corp. C
3. OPERATOR: C & E Operating, Inc.
4. ADDRESS: 13333 Southwest Freeway, #105 Sugar Land, Texas 77478
5. LOCATION (Section, Block, and Survey): Maximo Gomez Grant A-25

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
495	495	1/4	0.43	2.13	2.13
660	165	1/4	0.43	0.71	2.84
1646	986	1/4	0.43	4.24	7.08
2640	994	1/4	0.43	4.27	11.35
3635	995	1/2	0.87	8.66	20.01
4633	998	1/2	0.87	8.68	28.69
5628	995	3/4	1.31	13.03	41.72
5985	357	3/4	1.31	4.68	46.40

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no
18. Accumulative total displacement of well bore at total depth of 5985 feet = 46.40 feet.
*19. Inclination measurements were made in ~ ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line 6376 feet.
21. Minimum distance to lease line as prescribed by field rules 467 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No
(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Robert R. Kullin
Signature of Authorized Representative
Robert R. Kullin - President
Name of Person and Title (type or print)
Corpus Christi Drilling Company.
Name of Company
Telephone: 512 (Area Code) 991-8400

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Terry L. Boening
Signature of Authorized Representative
Terry L. Boening President
Name of Person and Title (type or print)
C & E Operating, Inc.
Operator
Telephone: 281 (Area Code) 265-6500

Railroad Commission Use Only:
Approved By: HELMUTH SCHNEIDER Title: GEOL. Date: 10-10-97

* Designates items certified by company that conducted the inclination surveys.

Cementer Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev.4/1/83
hlbrtn1096

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1 Operator's Name (As Shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee
5 Field Name (Wildcat or Exactly as Shown on RRC Records)	**6 API No**		**7 Drilling Permit No**
Laura Thomson (4850)	42- 025-32830		463725
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Thomson-Barrow Corp. C		165389	#5

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		8/1/97					
13 *Drilled Hole Size		12 1/4					
*Ext % Wash or Hole Enlargement		25					
14 Size of Casing (in. O.D.)		8 5/8					
15 Top of Liner (ft)							
16. Setting Depth (ft)		654					
17. Number of Centralizers Used		6					
18 Hrs Waiting on Cement Before Drill-Out		16					
1st Slurry	19 API Cement Used: No of Sacks >	225					
	Class >	HLC(A)					
	Additives >	3% SALT					
2nd Slurry	No of Sacks >	110					
	Class >	A					
	Additives >	2%CACL2					
3rd Slurry	No of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >	414.4					
	Height (ft) >	1004					
2nd	Volume (cu.ft.) >	137.5					
	Height (ft) >	333.1					
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >	551.9					
	Height (ft) >	1337.1					
21 Was Cement Circulated to Ground Surface (or Bottom of Cellar) Outside Casing?		YES					

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

T.N.R.C.C. LETTER DATED 6-16-97
Depth 1650' ft.
13(A) Exception 6-18-97
Surface Casing 600' ft.
D.V. @ ft.

22 Remarks

C & E OPERATING
THOMSON-BARROW CORP #C-5
BEE COUNTY TEXAS
TKT #250938 45 BBLS CMT RETURNS

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (inches)								
25. Depth to Bottom of Tubing or Drill Pipe (feet)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu.ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, if Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my

This certification covers cementing data only.

ROBERT GLENN	SERVICE SUPERVISOR	HALLIBURTON ENERGY SERVICES	Robert Glenn
Name and Title of Cementer's Representative		Cementing Company	Signature

101 HOLT ROAD	VICTORIA, TEXAS	77905-5555	800/448-0645 OR 512/575-1443	8/7/97
Address	City State	Zip Code	Tel: Area Code Number	Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening	President	Terry L. Boening
Typed or Printed Name of Operators Representative	Title	Signature

13333 Southwest Freeway, #105	Sugar Land, TX	77478	281/ 265-6500	10 7 97
Address	City State	Zip Code	Tel: Area Code Number	Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

* An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules:
* Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
* Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rull 12 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating , Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7 Drilling Permit No**
Laura Thomson (4850)		42- 025-32830	463725
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Thompson-Barrow Corp. C.		165389	#5

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date						8-10-97	8-10-97
13 •Drilled hole size						7 7/8	7 7/8
•Est % wash or hole enlargement						15	15
14 Size of casing (in OD)						4 1/2	4 1/2
15 Top of liner (ft)							
16 Setting depth (ft)						1704	5107
17 Number of centralizers used						11	8
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used No of sacks ▶					250	75
	Class ▶					A	H
	Additives ▶					Remark #3	Remark #1
2nd Slurry	No of sacks ▶					100	185
	Class ▶					A	H
	Additives ▶					$Cacl_2$	Remark #2
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶					558	167
	Height (ft) ▶					2443	731
2nd	Volume (cu ft) ▶					119	222
	Height (ft) ▶					519	972
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft.) ▶					677	389
	Height (ft) ▶					2962	1703
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?						Yes	No

RECEIVED
R.R.C. OF TEXAS
OCT 10 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks #1 Gel;Salt;R-3
2 Salt;FL-25;ASA-301;R-3
3 Gel;Salt

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25 Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29 Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Russell L. Tremaine Service Supervisor B. J. Services Russell L. Tremaine

Name and title of cementer's representative | Cementing Company | Signature

411-A Hartman Rd. Victoria, Tx. 77905 512-575-6446 8-10-97

Address | City, State, Zip Code | Tel.: Area Code Number | Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening President Terry L. Boening

Typed or printed name of operator's representative | Title | Signature

13333 Southwest Frwy, #105 Sugar Land, Texas 77478 281/ 265-6500 10 7 97

Address | City, State, Zip Code | Tel.: Area Code Number | Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

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E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

143

Address to
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office — Expedite — Read Instructions on Back

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150, 9001' or deeper - $200

Purpose of filing (mark appropriate boxes): ☐ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter ☐ Horizontal ☐ Directional Well ☐ Sidetrack ☒ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42- 025-32848 Permit No. 467831 AWA Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Sugar Land, texas 77478 — 10-15-97 — 953535

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. C
7. RRC Lease/ID No
8. Well No.: #6
9. Total Depth: 6000'

10. Location
- Section ____ Block ____ Survey Miguel de Los Santos Abstract No. A- 64
- This well is to be located 8.3 miles in a east direction from Skidmore, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 472' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 16,693 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6000') 4001	6000	467/1200	40	40	No	NA	O/G	1	1
Laura Thomson (4850) 52285164	4850	467/1200	40	40	No	4440'	~~O/G~~	3	3
Laura Thomson (5360 F-40) 52285300	5360	467/1200	40	40	No	NA	O/~~G~~	1	1

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit 12,225' FNL & 472' FSWL
- Survey/Section 5277 FSL & 3814' FEL

Code

If a directional well, show also projected bottom-hole location:
- Lease/Unit
- Survey/Section

23. Is this a pooled unit? Yes ☐ (Attach Form P-12 and certified plat.) No ☒

Code

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ (Attach Form W-1A) No ☐

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes ☒ No ☐

Remarks
Amended to include Laura Thomson (5360 F-40)

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening — Terry L. Boening / President
Signature — Name and title of operator's representative

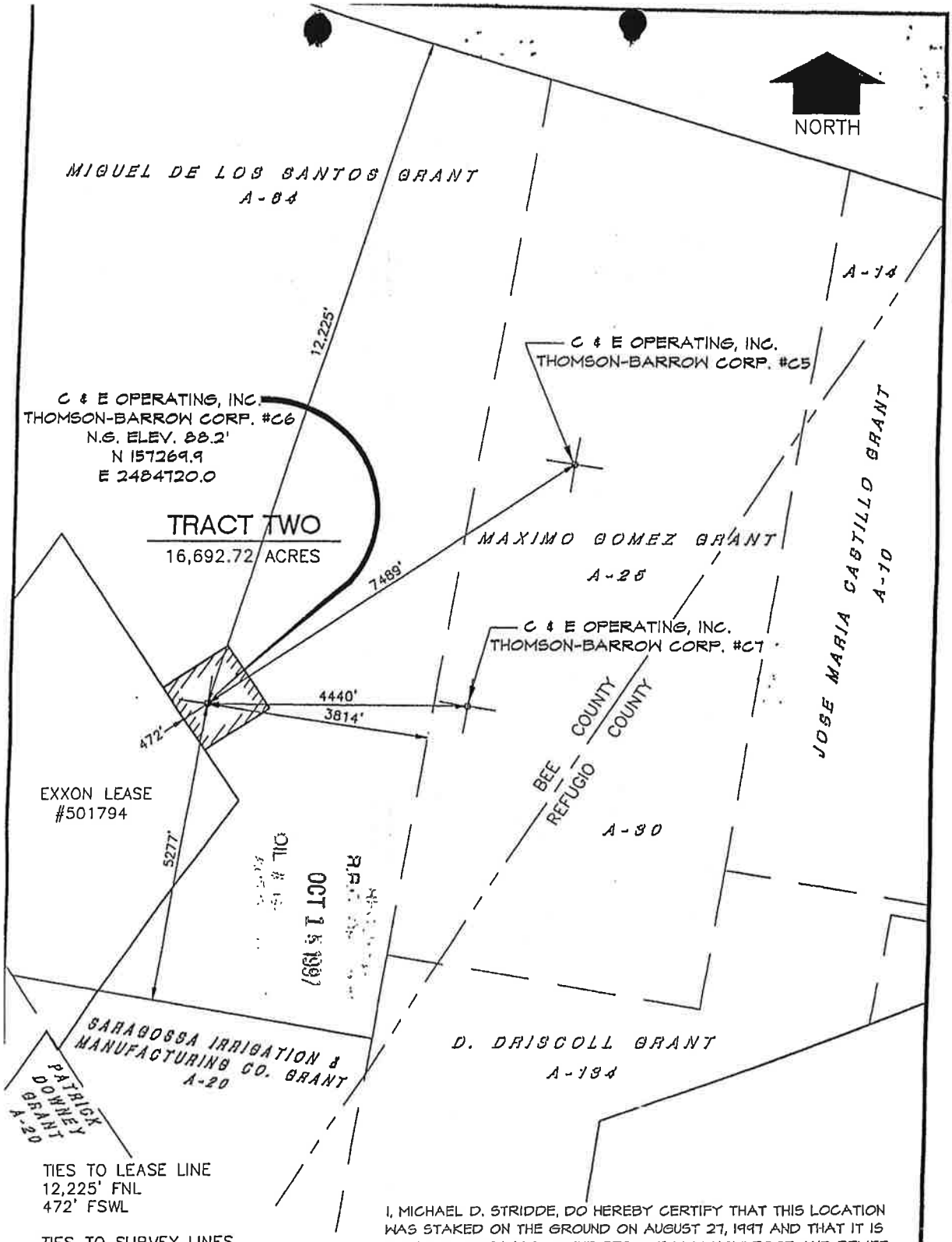
Date: 10 mo. 14 day 97 yr. Tel.: 281/ 265-6500 Area Code Number

150 App 50 Exp
202215 OCT 1597

RRC Use Only

467831

025-32848



TIES TO LEASE LINE
12,225' FNL
472' FSWL

TIES TO SURVEY LINES
5277' FSL
3814' FEL

DISTANCE FROM NEAREST TOWN
10 MILES W. OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON AUGUST 27, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

Michael D. Stridde 9-4-97

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C6
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

DWG. No :	9773-501
SCALE :	1" = 2000'
DATE :	9/97
DWN BY :	JT

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office

Read Instructions on Back

Expedite

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150, 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025-32848 YB
Permit No. 46783 Laura
Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc. 949977
2. Address (including city and zip code): 13333 Southwest Freeway, Suite 105, Suagr Land, Texas 77478 953535
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): Thomson-BArrow Corp. C
7. RRC Lease/ID No.:
8. Well No.: 6
9. Total Depth: 6000'

10. Location
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Wildcat (Above 6000') 4001	6000	467/1200	40	40	No	NA	O/G	1	1
Laura Thomson (4850) 52285166	4850	467/1200	40	40	No	4440'	O/G	3	3

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit 12,225' FNL & 472' FSWL
- Survey/Section 5277' FSL & 3814' FEL

If a directional well, show also projected bottom-hole location:
- Lease/Unit
- Survey/Section

Code A 00

23. Is this a pooled unit? Yes [ ] (Attach Form P-12 and certified plat.) No [X]
24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] (Attach Form W-1A) No [ ]
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [ ] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [X] If not filed, explain in Remarks.
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [XX] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening — Terry L. Boening
Signature — Name and title of operator's representative

Date: 9 (mo.) 18 (day) 97 (yr.) Tel.: 281/ 265-6500 (Area Code Number)

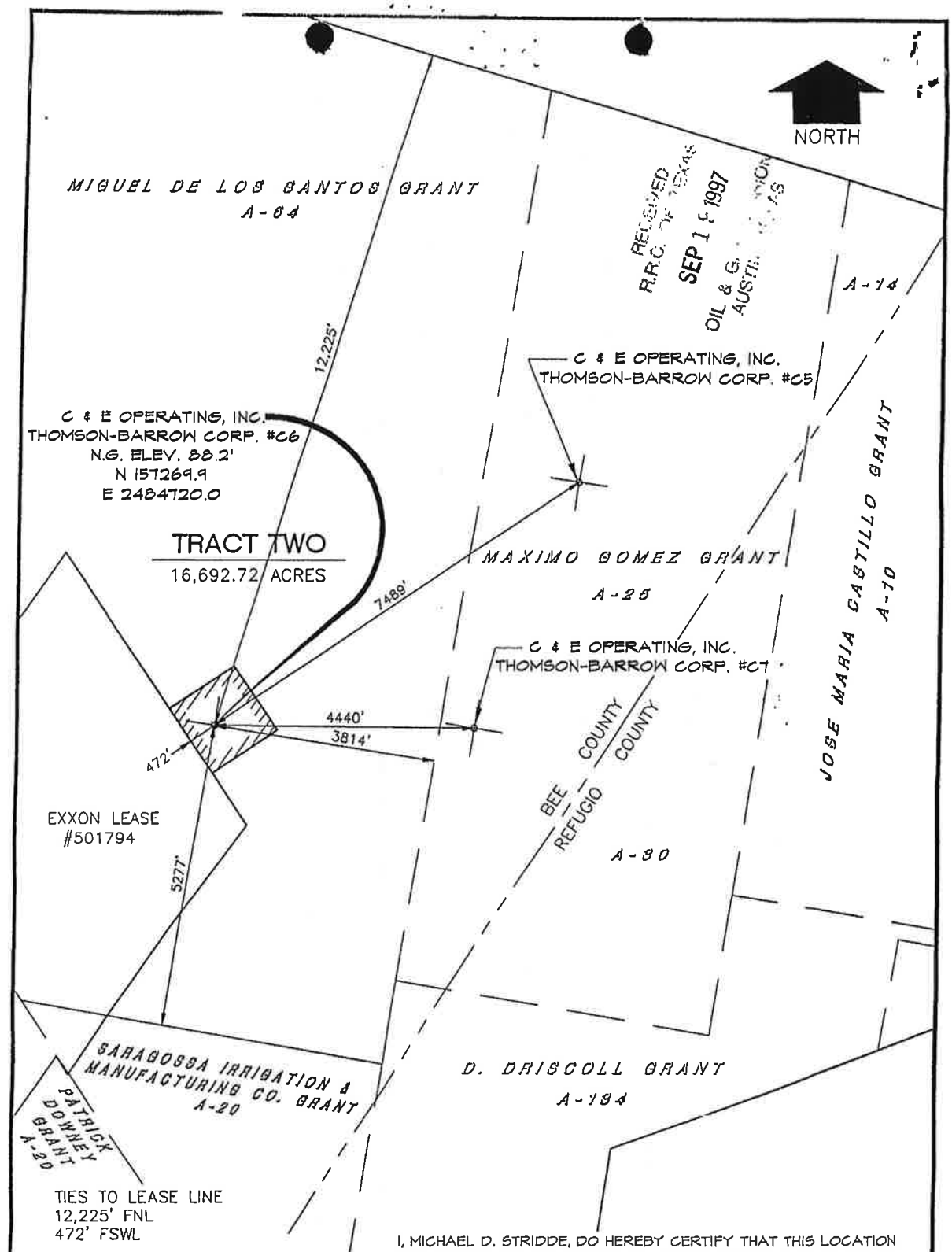
150 APP 50 EXP
200981 SEP 1997

• RRC Use Only •

467831

025-32848

MAPPING



TIES TO LEASE LINE
12,225' FNL
472' FSWL

TIES TO SURVEY LINES
5277' FSL
3814' FEL

DISTANCE FROM NEAREST TOWN
10 MILES W. OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON AUGUST 27, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

Michael D. Stridde 9-4-97

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C6
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

DWG. No.	9773-501
SCALE:	1" = 2000'
DATE:	9/97
DWN BY:	JT

GOVINDAN & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

MAP ID #90

API# 42-025-30241
DRY HOLE

(90)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2
4 RRC Lease or Id. Number:
2. FIELD NAME (as per RRC Records): WILDCAT
3. LEASE NAME: LAURA T. BARRON 'B'
5. Well Number: 27
6. OPERATOR: EXXON CORPORATION
10 County: BEE
7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
11. Date Drilling Permit Issued: 11-16-73
8. SURFACE LOCATION: 1600 FEET FROM W of E LINE, AND 2750 FEET FROM S of N LINE
12. Date Drilling Commenced: 1-4-74
9. SECTION, BLOCK, AND SURVEY: MAXIMO GOMEZ SURVEY (A-25)
13. Date Drilling Completed: 1-15-74
15. Type of Well (Oil, Gas, Dry)*: DRY
16. Type of Completion (Single, Dual, Etc.)
17. Total Depth: 6020
14. Date Well Plugged: 1-15-74
18. FORM W-1 (Intent) to Drill) Filed in Name of: EXXON CORPORATION

19 Manner of Placement

PLUG #1	45	SACKS	TOP 5700	BOTTOM 6000	TYPE CLASS H
PLUG #2	45	SACKS	TOP 3200	BOTTOM 3500	TYPE CLASS H
PLUG #3	310	SACKS	TOP 0	BOTTOM 1652	TYPE CLASS H
PLUG #4		SACKS	TOP	BOTTOM	TYPE

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES X NO
21 How was Mud applied? POWER PUMP
22 Mud Weight: 9.5 LBS/GAL
23 Depth of Deepest Fresh Water: 1650 FEET
24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO
25 If NO, Explain
26 Name and Address of Party Plugging Well: THE WESTERN COMPANY OF NORTH AMERICA, BOX 1186, ROBSTOWN, TEXAS 78380
27 Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
7 7/8"	1072.75		1072.75	
2 7/8"	1652.00		1652.00	

7 7/8" CASING CEMENTED TO SURFACE.

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

29 Was Notice given before Plugging to each of the above and RRC District Office?
YES X NO RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — PRORATION SPECIALIST — 2-6-74
REPRESENTATIVE OF COMPANY — TITLE — DATE

B

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

RECEIVED
R.R.C. OF TEXAS
FEB 08 1974

025 30247

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-21-69)

CEMENTING REPORT

(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) WILDCAT	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County DeC
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA T. BARTON	*6. Well Number 27
*7. Location (Section, Block, and Survey) MAXIMO GOMEZ SURVEY (A-25)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	1-14-74	1-15-74	1-15-74			
*20. Size of Hole or Pipe in which Plug Placed (inches)	6½	6½	2⅞ & 7⅞			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	6000	3500	1651			
22. Sacks of Cement Used (each plug)	45	45	310			
23. Slurry Volume Pumped (cu. ft.)	81.45	81.45	561			
24. Calculated Top of Plug (ft.)	5,700	3,200	-0-			
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R. COMMISSION
FEB 08 1974
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30241

26. Remarks: EXXON COMPANY, U.S.A. (G)
Barrow #B-27 Bee County

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

A E Browning
Signature of Cementer or Authorized Representative

A. E. BROWNING Serv. Supervisor
Name of Person and Title (type or print)

THE WESTERN COMPANY OF NORTH AMIERCA
Cementing Company

P. O. Box 1186
Street Address or P.O. Box

Robstown, Texas 78380
City, State Zip Code

Telephone 512 387-1523
Area Code

January 15, 1974
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

2-6-74
*Date

– INSTRUCTIONS –

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

Return to Central Records

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 4-17-69)

CEMENTING REPORT

(To be filed with each Form C-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) WILDCAT	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA T. BARROW B	*6. Well Number 27
*7. Location (Section, Block, and Survey) MAXIMO GOMEZ SURVEY (A-25)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	1-5-74					
*9. (a) Size of Drill Bit (inches)	9 7/8					
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)	7 5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	10727S					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	Remarks					
(b) In Second Slurry	Remarks					
(c) In Third Slurry	Remarks					
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	125					
(b) In Second Slurry	150					
(c) In Third Slurry	50					
(d) Total Sacks of Cement Used	325					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.22					
(b) In Second Slurry	1.18					
(c) In Third Slurry	1.18					
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	278					
(b) In Second Slurry	177					
(c) In Third Slurry	59					
(d) Total Slurry Volume Pumped (cu.ft.)	514					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	2,350					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	YES					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. COMMISSION OF TEXAS
FEB 08 1974

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30241

26. Remarks: EXXON COMPANY, U. S. A.
Barrow #B-27 Bee County

13a) 125 sx. A + 8% Gel + 3% Salt
13b) 150 sx. A + 2% $CaCl_2$
13c) 50 sx. A + 3% $CaCl_2$

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

A E Browning
Signature of Cementer or Authorized Representative

L. E. Browning Serv. Supervisor
Name of Person and Title (type or print)

THE WESTERN COMPANY OF NORTH AMERICA
Cementing Company

P. O. Box 1186
Street Address or P.O. Box

Robstown, Texas 78380
City, State Zip Code

Telephone 512 387-1523
Area Code

January 5, 1974
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIAUST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

2-6-74
*Date

– INSTRUCTIONS –

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
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   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission, plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

Central

EXXON COMPANY, U.S.A.
WILSON TOWER • CORPUS CHRISTI, TEXAS 78401

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

DRILLER'S LOG

FROM	TO	FORMATION
0	12	KB to ground
12	70	Surface sand and clay
70	460	Sand
460	875	Sand and shale
875	1093	Shale
1093	3222	Shale and sand
3222	3358	Shale
3358	4312	Sand and shale
4312	5165	Shale
5165	5238	Sticky shale
5238	5513	Shale
5513	5706	Sticky shale
5706	5758	Shale
5758	6020	Shale and sand
	6020	Total Depth

I, GRADY COYLE REPRESENTING EXXON CORPORATION DO CERTIFY THAT THE FOREGOING HAS BEEN EXTRACTED FROM THE DAILY DRILLERS REPORT OF THE Mrs. Laura T. Barrow "B" #27 WELL IN Bee COUNTY, TEXAS AND THAT THE SAME IS A TRUE AND CORRECT STATEMENT OF THE INFORMATION REVEALED IN THE REPORT, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

EXXON CORPORATION

DATE: 2-7-74

BY Grady Coyle
GRADY COYLE

RECEIVED
FEB 08 1974

A DIVISION OF EXXON CORPORATION

025-30241

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

FORM W-1
(3-1-70)

API BEE DIST. 2
API NO. 42 025 30241

1

SPS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

7. RRC District: 2

8. County: Bee

1. Operator: Exxon Corporation

4. Lease Name: Laura T. Barrow "B"

9. Well Number: 27

2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78401

5. Location (Sec., Blk., Survey): Maximo Gomez Survey (A-25)

10. Number of Acres in Lease: 6127.5

6. This well is to be located 13.1 miles W
Direction from Skidmore, Texas
Nearest Post Office or Town.

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): Over 467'

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES [XX] NO [ ]

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No, If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat Above 6300'	6300	--	467 1200	40	40	No	--	Yes	Gas	--	--

RECEIVED
R. R. C. OF TEXAS
SEP 24 1973
SAN ANTONIO, TEXAS

SEP 25 1973

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS:

1 3/4 Mi SE of Laura Thompson Field

Signature: Grady Coyle

Title: Proration Specialist

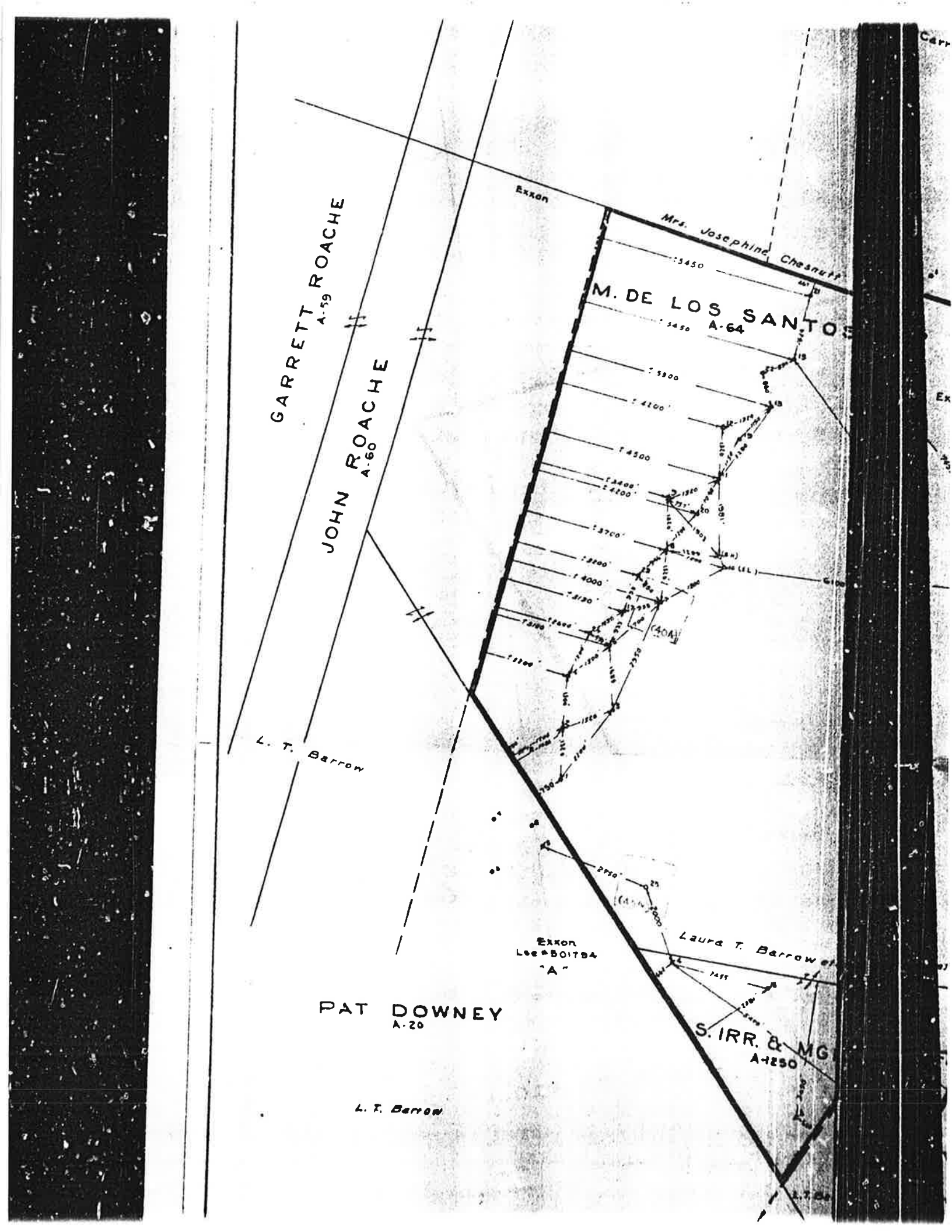
Date: September 21, 1973

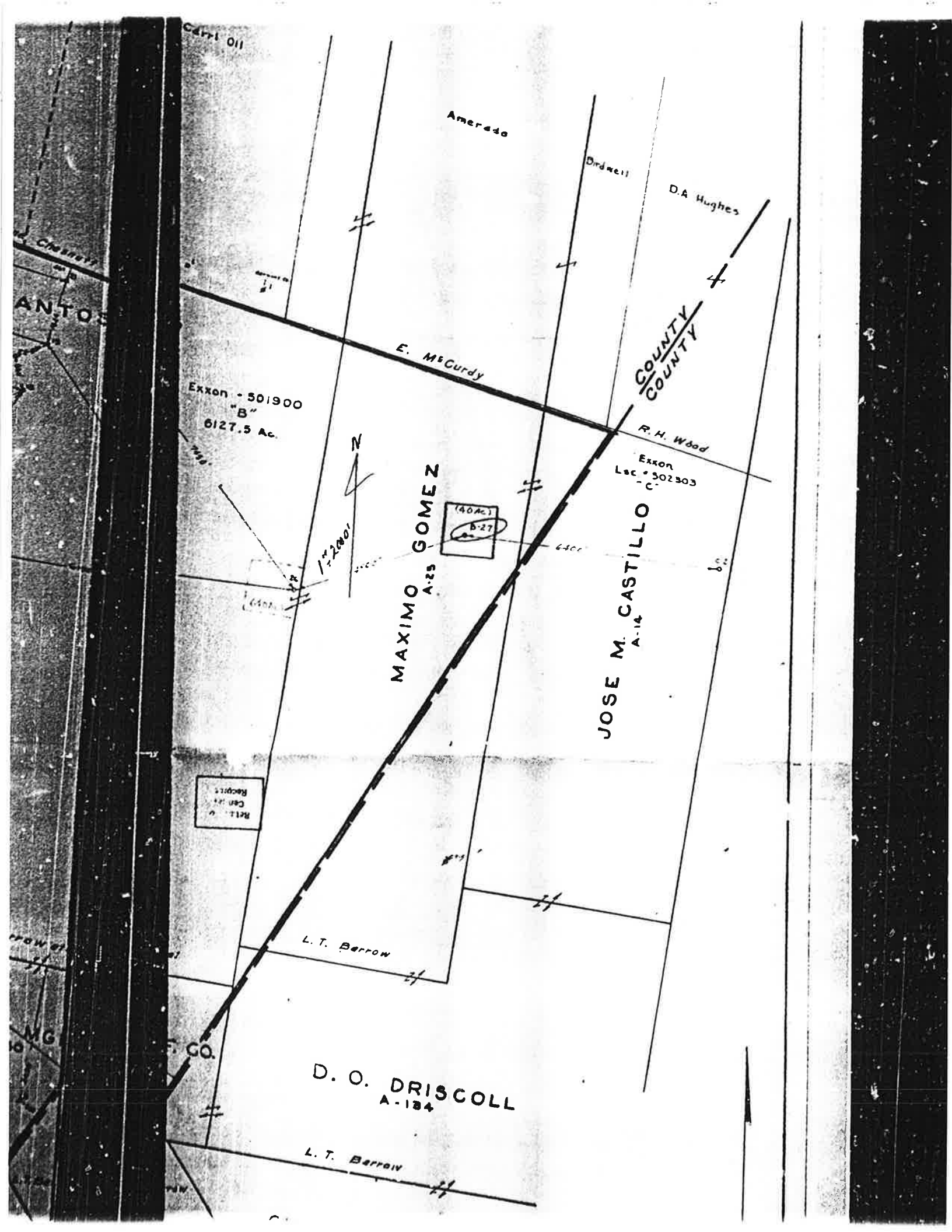
Telephone: Area Code 512 884-4571

Grady Coyle

– OVER –

16 025 18 8024 / 4 Ac


GARRETT ROACHE
A-59
JOHN ROACHE
A-60
Exxon
Mrs. Josephine Chesnutt
M. DE LOS SANTOS
A-64
L. T. Barrow
Exxon
Lee & BOITEAU
"A"
Laura T. Barrow et
PAT DOWNEY
A-20
S. IRR. & MG
A-1250
L. T. Barrow



Carri Oil
Amerada
Birdwell
D.A Hughes
E. McCurdy
COUNTY
COUNTY
Exxon - 501900
"B"
6127.5 Ac.
R. H. Wood
Exxon
Lsc - 502303
"C"
N
MAXIMO GOMEZ
A-25
(40 Ac.)
B-27
JOSE M. CASTILLO
A-14
L. T. Barrow
D. O. DRISCOLL
A-134
L. T. Barrow

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

FORM W-1
(3-1-70)

API Well No. 42 025-30241

AMENDED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: XX DRILL ☐ DEEPEN ☐ PLUG BACK ☐ OTHER (Specify)

1. Operator: Exxon Corporation
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78401
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES XX NO ☐
4. Lease Name: Laura T. Barrow "B"
5. Location (Sec., Blk., Survey): Maximo Gomez Survey (A-25)
6. This well is to be located 13.1 miles West Direction from Skidmore, Texas Nearest Post Office or Town.
7. RRC District: 2
8. County: Bee
9. Well Number: 27
10. Number of Acres in Lease: 6127.5
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): Over 467'

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so-state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules, indicate Rule 32.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No, If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat Above 6300'	6300	---	467 1200	40	40	No	---	Yes	Gas	---	---
Amend Lease											

R.R.C. OF TEXAS NOV 16 1973

RECEIVED R.R.C. OF TEXAS NOV 15 1973 AUSTIN, TEXAS

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS: To amend location. W-1 dated 9-21-73, Permit dated 9-25-73.

9800' East of Laura Thomson Fld.

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: Grady Coyle — Grady Coyle

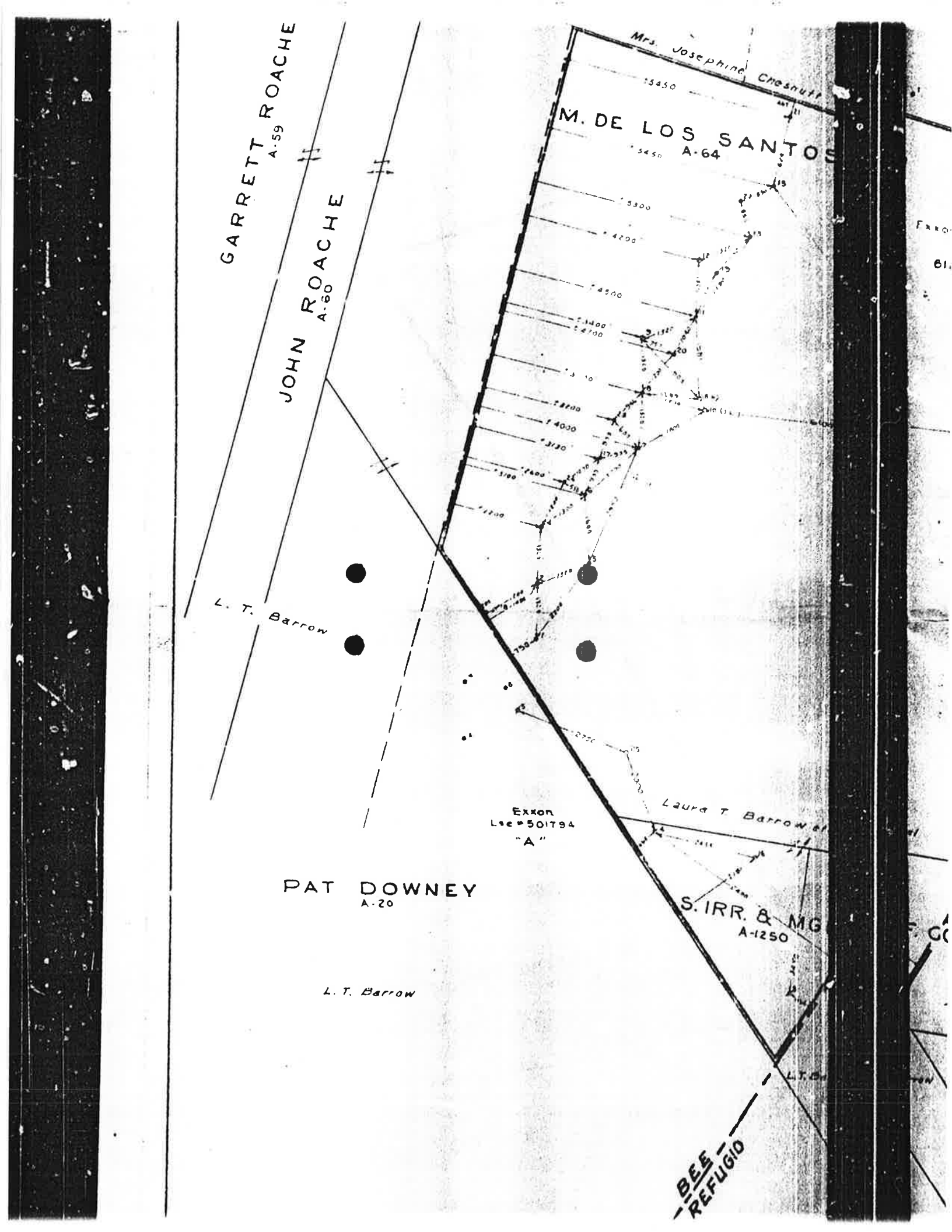
Title: Proration Specialist

Date: 11-13-73

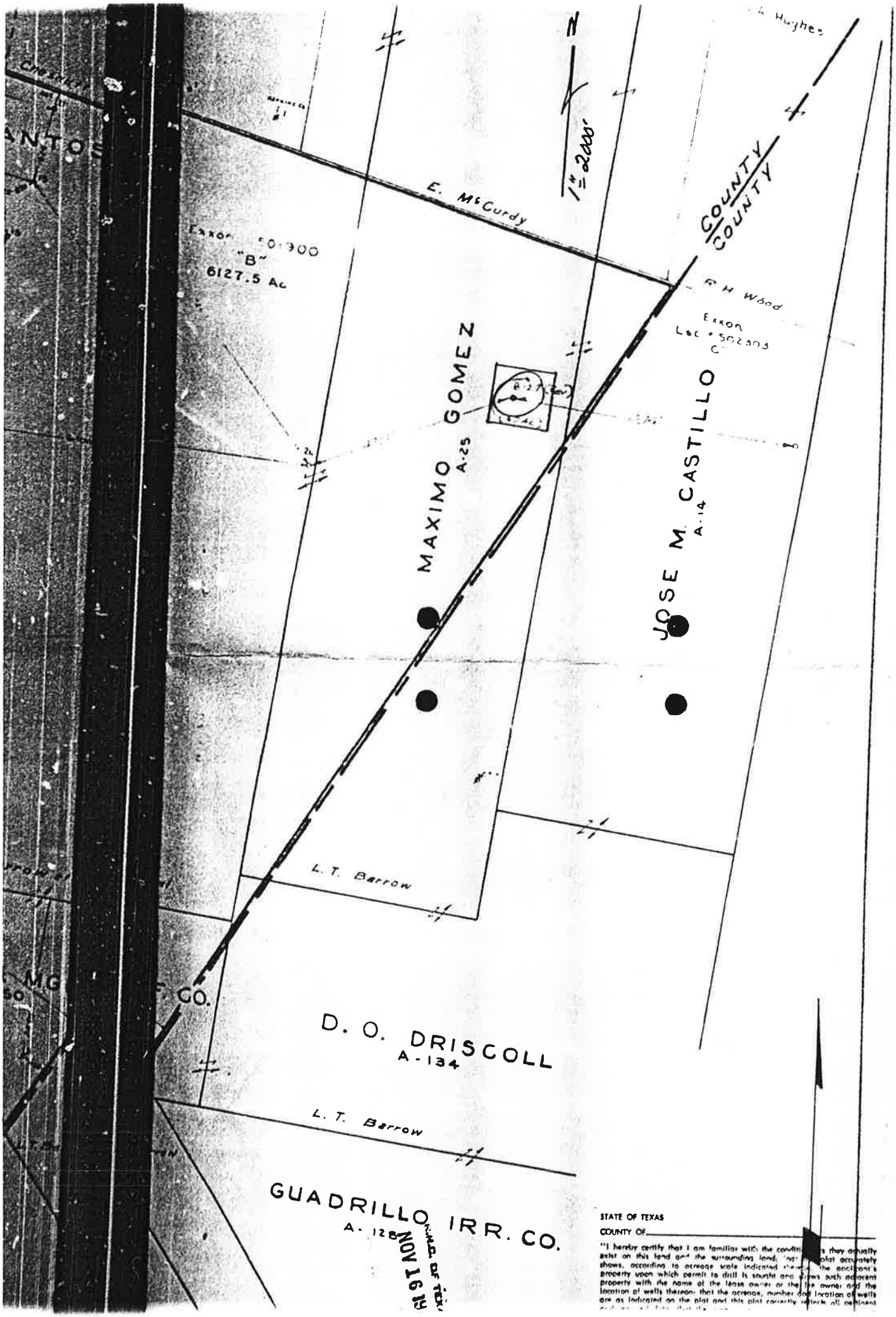
Telephone: Area Code 512 884-4571

– OVER –

1 30 025-30241 11-13-73



GARRETT ROACHE
A-59
JOHN ROACHE
A-60
Mrs. Josephine Chesnutt
M. DE LOS SANTOS
A-64
L. T. Barrow
Exxon
Lse #501794
"A"
Laura T. Barrow
PAT DOWNEY
A-20
S. IRR. & MG
A-1250
L. T. Barrow
BEE
REFUGIO


N
1"=2000'
E. McCurdy
COUNTY
COUNTY
Exxon
"B"
6127.5 Ac
F H Wood
Exxon
MAXIMO GOMEZ
A-25
JOSE M. CASTILLO
A-14
L. T. Barrow
D. O. DRISCOLL
A-134
L. T. Barrow
GUADRILLO IRR. CO.
A-128
STATE OF TEXAS
COUNTY OF

MAP ID #91

API# 42-025-32304
DUEL GAS WELL
PLUGGED

RECEIVED
CENTRAL RECORDS
JUL 29 2011
AUSTIN, TEXAS

RECEIVED
RRC OF TEXAS
MAR 30 2011
OIL & GAS DIVISION
SAN ANTONIO, TX

(91)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

API No. (if available)	1. RRC District
42- 391-32304	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 175655

2. FIELD NAME (as per RRC records)	3. Lease Name	5. Well Number
peponi ranch (frio 4800)	thomson-barrow corp "c"	16 C
6. OPERATOR	6a. Original Form W-1 filed in name of:	10. County
C & E Operating, Inc.		Refugio
7. ADDRESS 345 Commerce Green Blvd. Sugar Land, Texas 77498	6b. Any subsequent W-1's filed in name of:	11. Date Drilling Permit Issued 09/15/99
8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 7071.4 feet from north line and 5194.3 feet from east line of the Thomson-Barrow Corp. C lease		12. Permit Number 487131
9a. SECTION, BLOCK and SURVEY: Jose Maria Castillo A-10	9b. Distance and direction from nearest town in this county: 8.0 miles west from Woodsboro	13. Date Drilling Commenced 10/04/99

16. Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no.'s	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14. Date Drilling Completed
gas	6050	Laura Thomson (5600)	175656	G	16T	10/29/99
18. If gas, amt. of cond. on hand at time of plugging						15. Date Well Plugged 12/09/10

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date. 2010	12/8	12/8	12/9	12/9	12/9			
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2			
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5750	5000	1550	1000	14			
*22. Sacks of Cement Used (each plug)	25	25	50	35	5			
*23. Slurry Volume Pumped (cu. ft.)	29.5	29.5	59	41.3	5.9			
*24. Calculated Top of Plug (ft.)	5600	4850	1400	900	4			
25. Measured Top of Plug (if tagged) (ft.)			1400					
*26. Slurry Wt. # / Gal.	15.6	15.6	15.6	15.6	15.6			
*27. Type Cement	H	H	H	H	H			

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	1500	1496	12¼
4 1/2	10.5	5931	5927	7 7/8

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	5021	TO	5028	FROM	TO
FROM	5755	TO	5758	FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
*Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Signature of Cementer or Authorized Representative

York Cement & Acid
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report; that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Banning
REPRESENTATIVE OF COMPANY

Office Manager
TITLE

03/10/11
DATE

PHONE 361 741-3600
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING

RR

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? ☒ Yes ☐ No	32. How was mud applied? Circulated	33. Mud Weight 9.5 LBS/GAL

34 Total Depth	Other Fresh Water Zones by T.D.W.R.		35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☒ Yes ☐ No
	TOP	BOTTOM	36. If No, Explain
6050 Depth of Deepest Fresh Water 1450	0	950	

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well: York Cmt & Acid 6511 FM 1464 PMB6 Richmond TX 77407

Date RRC District Office notified of plugging: 12/08/10

38. Name(s) and address(es) of surface owners of well site

Thomson-Barrow Corp.
5847 San Felipe
Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *
File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest field _____

REMARKS

3rd plug perf & sqz
4th plug perf & sqz

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Type or print only

483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42-391 32304

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

7. RRC District No.: 2
8. RRC Gas ID No.: 175655
9. Well No.: 16C
10. County of well site: REFUGIO
11. Purpose of filing: Initial Potential [*] Retest [ ] Reclass [ ] Well record only (Explain in remarks) [ ]

1. FIELD NAME (as per RRC Records or Wildcat): Peponi Ranch (Frio 4800)
2. LEASE NAME: THOMSON-BARROW CORP "C"
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E OPERATING, INC.
RRC Operator No.: 120079
4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, Texas 77478
5. Location (Section, Block, and Survey): Jose Maria Castillo A-10
5b. Distance and direction to nearest town in this county.: 8.0 miles west from Woodsboro
6. If operator has changed within last 60 days, name former operator:
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR | GAS ID or OIL LEASE # | Oil—O Gas—G | WELL #:
13. Pipe Line Connection: NGPL
14. Completion or recompletion date: 10/27/99 (13)
15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No
16. Type of Electric or other Log Run.: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 10/26/99
Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]
Gas produced during test: 160 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp ^oF	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		8/64	0.347	1720		80.0	0.9813	1.0305	1.1062	668
2		9/64	0.444	1710		80.0	0.9813	1.0305	1.1058	849
3		10/64	0.553	1700		80.0	0.9813	1.0305	1.1054	1051
4		11/64	0.674	1695		80.0	0.9813	1.0305	1.1053	1277

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix}	Avg Shut-in Temp.	Bottom Hole Temp.
0.565			0.565	126 ^oF	176 ^oF @ 5025 (Depth)

$D_{eff}^{8/3}$ = 6.307
$\sqrt{T_f}$ = $\sqrt{593.000}$ = 24.352
$\sqrt{GL}$ = $\sqrt{2839.125}$ = 53.283
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 289.576
$\frac{\sqrt{GL}}{C}$ = 0.184

Return to Records Section

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. ^oF	P_w^2 (Thousands)	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			1900	75.0	3610			
1	60	8/64	1720	90.0	2958	122.9	15.1	1724.4	0.9975
2	60	9/64	1710	90.0	2924	156.2	24.4	1717.1	0.9959
3	60	10/64	1700	90.0	2890	193.4	37.4	1711.0	0.9936
4	60	11/64	1695	90.0	2873	235.0	55.2	1711.2	0.9905

Run No	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0909	1.1692	1.1121	2113	4464.8	
1	0.9987	0.0896	1.1562	1.1092	1913	3658.4	806.3
2	0.9979	0.0896	1.1560	1.1091	1904	3627.0	837.8
3	0.9968	0.0895	1.1559	1.1090	1897	3600.0	864.7
4	0.9953	0.0893	1.1558	1.1088	1897	3599.9	864.9

Angle of Slope
θ 45.00
n 1.0000
Absolute Open Flow
6592 ..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Kathey Richardson — Target Well Services, Inc.
Signature: Well Tester — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boerner — President — 11/11/99 — Tel: (361)741-3600
Signature: Operator's representative — Title — Date — A/C Number

MAPPING

VALID PERMIT 12/6/99 SMC

DEC 01 1999

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill Plug Back or Deepen — DATE 9/15/99 — PERMIT NO. 487131

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C&E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 16,692.7

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 10/4/99 Completed 10/13/99

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 7071.4 Feet From north Line and 5194.3 Feet from east Line of the Thomson-Barrow Corp. C Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 72.7'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: 5021'

28. Total Depth: 6050'

29. P. B. Depth: 5889'

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. [X] Railroad Commission (Special) [ ] Dt. of Letter 8/31/99 Dt. of Letter

31. Is well multiple completion? [X] Yes [ ] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Peponi Ranch (Frio 4800)	175655	G	16C
Laura Thomson (5600)	175656	G	16T

33. Intervals Drilled by: Rotary Tools | Cable Tools

34. Name of Drilling Contractor: Price Drilling Company

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. **CASING RECORD (Report All Strings Set in Well)**

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24.0	1500	--	540sx A	12¼	surface	1081
4 1/2	10.5	5931	--	442sx H	7 7/8	3135	637

37. **LINER RECORD**

Size	TOP	Bottom	Sacks Cement	Screen

38. **TUBING RECORD**

Size	Depth Set	Packer Set
2 3/8	5050	5050

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
5021	5028

40. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used
5021 - 28	Perforate 4 SPF
5755 - 58	Perforate 4 SPF

41. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth
Frio	3460		
Vicksburg	5960		

REMARKS Casing/Tubing Dual W-1 + plat w/ Fd #175656 Laura Thomson (5600)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

6. RRC District: 02

7. RRC Lease Number. (Oil completions only):

8. Well Number: 16

9. RRC Identification Number (Gas completions only):

10. County: Refugio

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson(5600)/Peponi Ranch (Frio 4800)

2. LEASE NAME: Thomson-Barrow Corp. C

3. OPERATOR: C&E Operating, Inc.

4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, Texas 77478

5. LOCATION (Section, Block, and Survey): Jose Maria Castillo A-10

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
456	456	0.25	0.44	2.01	2.01
1006	550	0.50	0.87	4.79	6.80
1530	524	0.50	0.87	4.56	11.36
2218	688	0.50	0.87	5.99	17.35
3189	971	0.75	1.31	12.72	30.07
3640	451	0.75	1.31	5.91	35.98
4402	762	1.00	1.75	13.34	49.32
4804	402	1.50	2.62	10.53	59.85
5583	779	1.25	2.18	16.98	76.83
6050	467	1.25	2.18	10.18	87.01

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If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 6050 feet = 87.01 feet.

*19. Inclination measurements were made in — ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 5194.3 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Richard B. Shaw
Signature of Authorized Representative

Richard B. Shaw President
Name of Person and Title (type or print)

Price Drilling Company
Name of Company

Telephone: 512 (Area Code) 256-3363

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Terry L. Boening
Signature of Authorized Representative

Terry L. Boening, President
Name of Person and Title (type or print)

C&E Operating, Inc.
Operator

Telephone: 361 (Area Code) 741-3600

Railroad Commission Use Only:

Approved By: HELMUTH SCHNEIDER Title: GEOLOGIST Date: 11-17-99

* Designates items certified by company that conducted the inclination surveys.

RECORD OF INCLINATION (Continued from reverse side)

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)

Cementer: Fill in shaded areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1. Operator's Name (As shown of Form P-5, Organization Report)	Co.	3. RRC District No.,	4. County of Well Site
C & E OPERATING , Inc.	120079	02	Refugio

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Laura Thomson(5600)/Peponi Ranch (Frio 4800)	42-391 32304	487131

Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
THOMPSON BARROW Corp. C			16

CASING CEMENT DATA:		SURFACE	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		10-5-99					
13. • Drilled hole size		12 1/4					
• Est. % wash or hole enlargement		30	T.N.R.C.C. LETTER DATED 8-31-99				
14. Size of casing (in. O.D.)		8 5/8	Depth 1450, 950' ft.				
15. Top of liner (ft.)			13(A) Exception Dated				
16. Setting Depth		1500	Surface Casing ft.				
17. Number of centralizers used		9	D.V. @ ft.				
18. Hrs. Waiting on cement before drill out		12					
1st Slurry	19. API cement used: No. of sacks	420sxs					
	Class	Class A					
	Additives	3% SALT					
2nd Slurry	No. of sacks	120sxs					
	Class	Class A					
	Additives	2% CACL2					
3rd Slurry	No. of sacks						
	Class						
	Additives						
1ST	20. Slurry pumped: Volume (cu.ft.)	937					
	Height (ft.)	2269					
2ND	Volume (cu.ft.)	144					
	Height (ft.)	349					
3RD	Volume (cu.ft.)						
	Height (ft.)						
Total	Volume (cu.ft.)	1081					
	Height (ft.)	2618					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing		YES					

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CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type of cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code that I am authorized to make this certification,, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed me by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

JAMES TUTTLE SERVICE SUP.
Name and title of cementer's representative

BJ SERVICES CO 411 A HARTMAN ROAD VICTORIA,TEXAS 77905
Cementing Company

Signature

Address City, State, Zip Code

(361)-575-6446
Tel.: Area Code Number

10-5-99
Date: mo day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct,, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening
Typed or printed name of operator's representative

President
Title

Terry L. Boening
Signature

345 Commerce Green Blvd., Sugar Land, TX 77478 (361)741-3600
Address City, State, Zip Code Tel.: Area Code Number

11/11/99
Date: mo day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing Cementing, Drilling and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by The Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper that 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be place every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirments of Statewide Rule 13. In written application, an operator must state the reason for the requested exception and outline an alternate program for casing through the production depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An opeator must obtain approval of any exception before beginning casing and cementing operations!

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

Cementer Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3. RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Refugio

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Laura Thomson (5600)/ Peponi Ranch (Frio 4800)	42- 391 32304	487131

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
Thomson - Barrow Corp. C			#16

CASING CEMENTING DATA.		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date				10/12/99			
13 •Drilled hole size				7 7/8			
•Est % wash or hole enlargement				15			
14 Size of casing (in O D)				4 1/2			
15 Top of liner (ft)							
16 Setting depth (ft)				5931			
17 Number of centralizers used				6			
18 Hrs waiting on cement before drill-out							
1st Slurry	19. API cement used No of sacks ▶			100			
	Class ▶			H			
	Additives ▶			Poz,Gel,Salt,R3			
2nd Slurry	No of sacks ▶			342			
	Class ▶			H			
	Additives ▶			Salt,FL25,ASA-301,SM			
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶			223			
	Height (ft) ▶			979			
2nd	Volume (cu ft) ▶			414			
	Height (ft) ▶			1817			
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu. ft) ▶			637			
	Height (ft) ▶			2796			
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?				NO			

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22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Larry Langley, Service Superv. — Name and title of cementer's representative

BJ — BJ SERVICES CO. — Cementing Company

Signature

411 Hartman Road, Victoria, TX 77905 — Address, City, State, Zip Code

361-575-6446 — Tel.: Area Code Number

10/12/99 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative

President — Title

Signature

345 Commerce Green Blvd., Sugar Land, TX 77478 — Address, City, State, Zip Code

(361)741-3600 — Tel.: Area Code Number

11/11/99 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

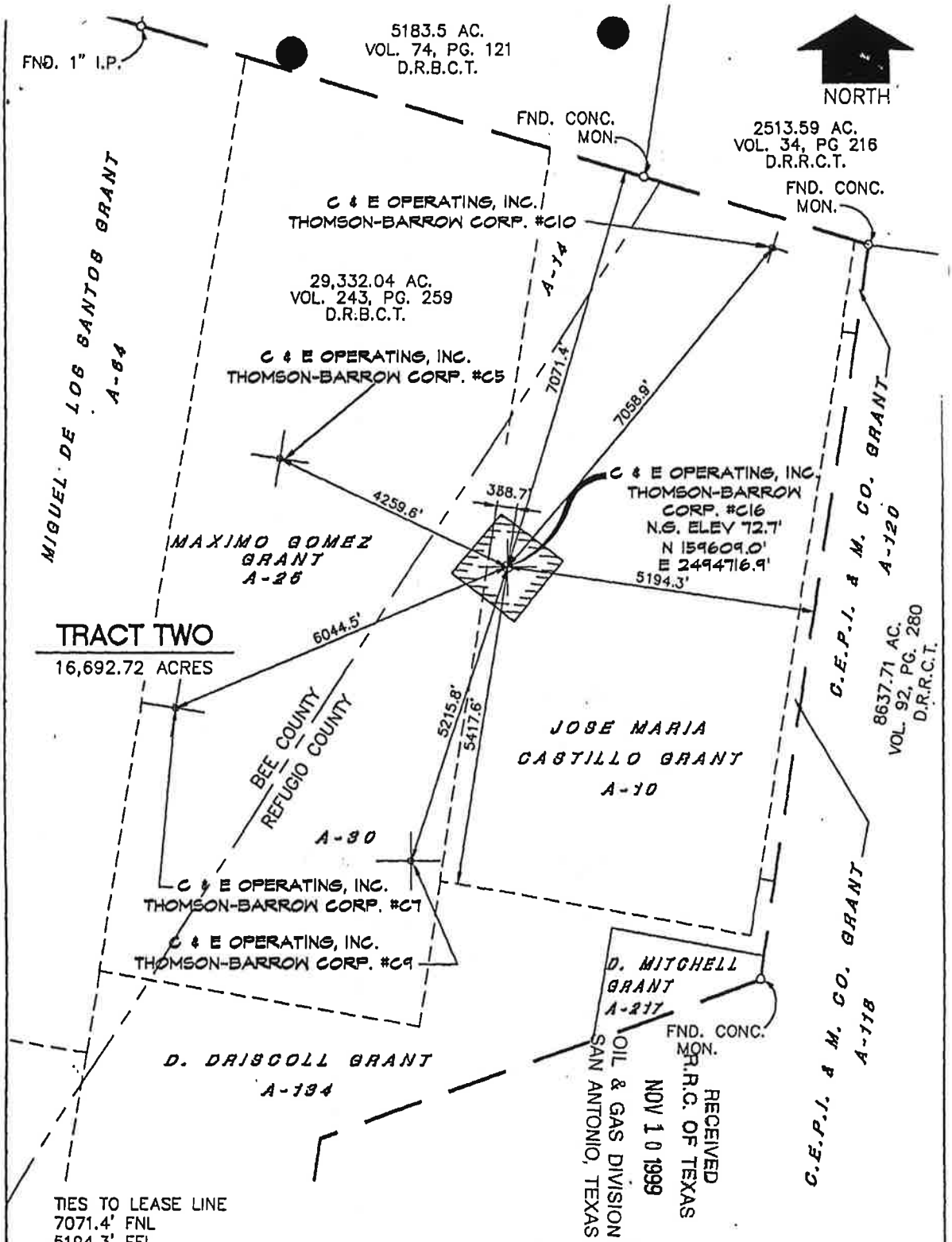
D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.



TIES TO LEASE LINE
7071.4' FNL
5194.3' FEL

TIES TO SURVEY LINES
5417.6' FSL
338.7' FWL

DISTANCE FROM NEAREST TOWN
8 MILES W OF WOODSBORO

RECEIVED
R.R.C. OF TEXAS
NOV 10 1999
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON AUGUST 18, 1999 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde 8-24-99

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE N.A.D. 27

WELL LOCATION
C & E OPERATING, INC.
THOMAS-BARROW CORP. #C16
JOSE MARIA CASTILLO GRANT, A-10
REFUGIO COUNTY, TEXAS

DWG. No. :	9973-506
SCALE :	1"= 2000'
DATE :	8/99
DWN. BY :	BR

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (361)289-1385

RECEIVED
R.R.C. OF TEXAS
NOV 17 1999
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Type or print only

483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42391 32304

7. RRC District No. 2

8. RRC Gas ID No. 175656

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (5600)

2. LEASE NAME: THOMSON-BARROW CORP C

9. Well No. 16T

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E OPERATING, INC.

RRC Operator No. 120079

10. County of well site: REFUGIO

4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, Texas 77478

11. Purpose of filing
- Initial Potential [*]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): Jose Maria Castillo A-10

5b Distance and direction to nearest town in this county.: 8.0 miles west from Woodsboro

6. If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13. Pipe Line Connection: NGPL

14. Completion or recompletion date: 10/27/99

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16. Type of Electric or other Log Run.: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 10/27/99

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 124 MCF

Run No	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		11/64	0.674	1200		80.0	0.9813	1.0305	1.0805	884
2		10/64	0.553	1310		80.0	0.9813	1.0305	1.0869	796
3		9/64	0.444	1430		80.0	0.9813	1.0305	1.0933	702
4		8/64	0.347	1540		80.0	0.9813	1.0305	1.0987	594

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas): 0.565

Gravity Liquid Hydrocarbon: Deg. API

Gas-Liquid Hydro Ratio: CF/Bbl

Gravity of Mixture G_{mix} = 0.565

Avg. Shut-in Temp.: 133 °F

Bottom Hole Temp.: 190 °F @ 5757 (Depth)

$D_{eff}^{8/3}$ = 6.307

$\sqrt{T_f} = \sqrt{600.000}$ = 24.495

Return to Reservoir

$\sqrt{GL} = \sqrt{3252.705}$ = 57.032

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 287.882

$\frac{\sqrt{GL}}{C}$ = 0.198

Run No.	Time of Run Min.	Choke Size	Wellhead Press PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In			2285	75.0	5221				
1	60	11/64	1200	90.0	1440	175.1	30.7	1212.7	0.9895
2	60	10/64	1310	90.0	1716	157.7	24.9	1319.5	0.9928
3	60	9/64	1430	90.0	2045	139.1	19.3	1436.7	0.9953
4	60	8/64	1540	90.0	2372	117.7	13.8	1544.5	0.9971

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut-In		0.1029	1.1638	1.1273	2576	6635.8	
1	0.9948	0.1011	1.1465	1.1229	1362	1854.4	4781.4
2	0.9964	0.1013	1.1482	1.1233	1482	2196.8	4439.0
3	0.9977	0.1014	1.1498	1.1237	1614	2606.3	4029.5
4	0.9985	0.1015	1.1510	1.1239	1736	3013.2	3622.5

Angle of Slope
θ 45.00
n 1.0000

Absolute Open Flow: 1227 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Heather Richardson — Signature: Well Tester

Target Well Services, Inc. — Name of Company

RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Barnes — Signature: Operator's representative

President — Title

11/11/99 — Date

Tel: (361)741-3600 — A/C Number

MAPPING 14.3

VALID PERMIT

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)** — DEC 01 1999

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 9/15/99 — PERMIT NO. 487131

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C&E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 16,692.7

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 10/4/99; Completed 10/13/99

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 7071.4 Feet From north Line and 5194.3 Feet from east Line of the Thomson-Barrow Corp. C Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 72.7'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay	28. Total Depth	29. P. B. Depth	30. Surface Casing Determined by:
5755'	6050'	5889'	Field Rules [ ]; Recommendation of T.D.W.R. [X]; Railroad Commission (Special) [ ]; Dt. of Letter 8/31/99

31. Is well multiple completion? [X] Yes [ ] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Peponi Ranch (Frio 4800)	175655	G	16C
Laura Thomson (5600)	175656	G	16T

33. Intervals Drilled by: Rotary Tools X; Cable Tools

34. Name of Drilling Contractor: Price Drilling Company

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24.0	1500	--	540sx A	12 1/4	surface	1081
4 1/2	10.5	5931	--	442sx H	7 7/8	3135	637

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	5050	5050

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	5755	To	5758
From		To	
From		To	
From		To	

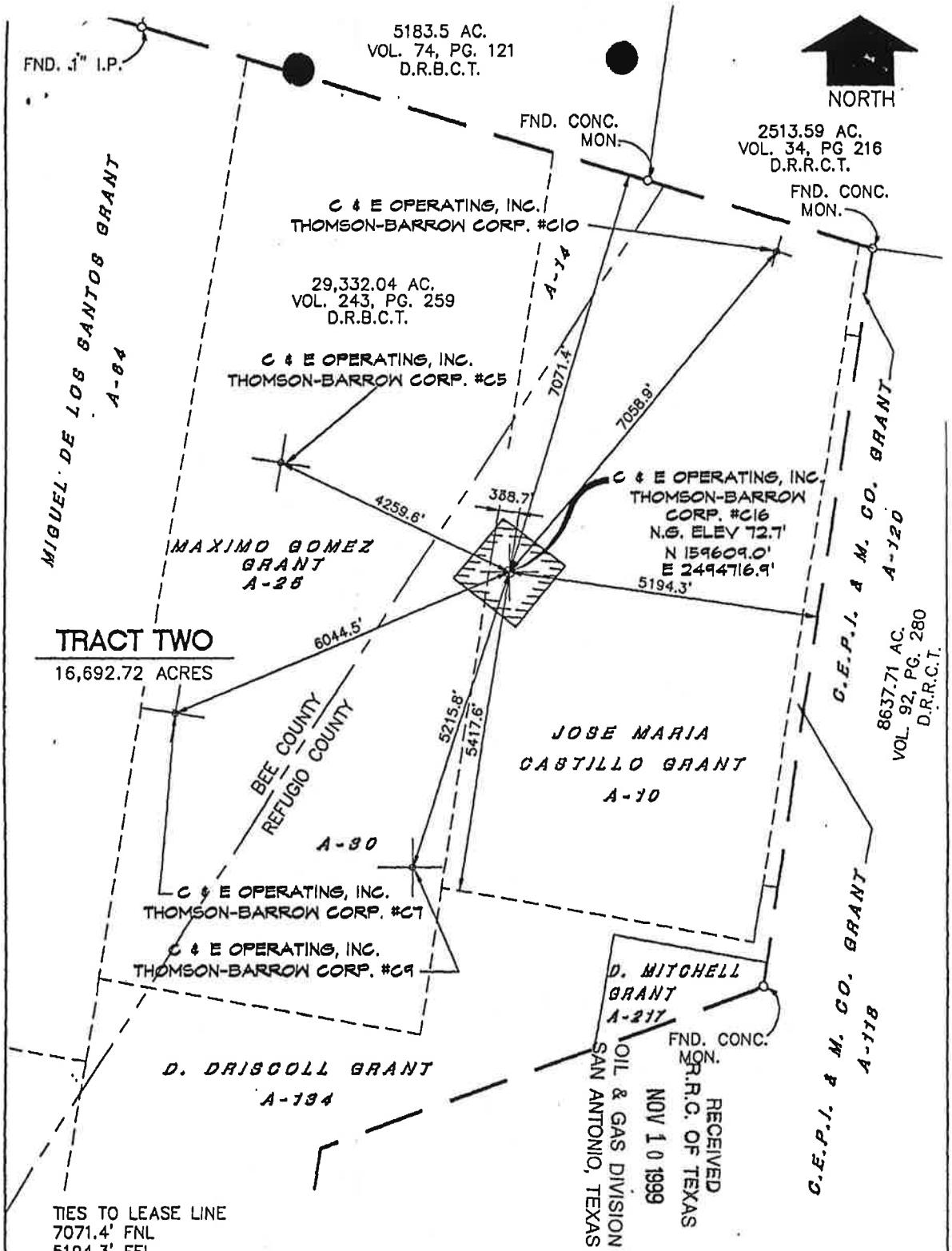
40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
5021 - 28	Perforate 4 SPF
5755 - 58	Perforate 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	3460		
Vicksburg	5960		

REMARKS: Casing/Tubing Dual



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TIES TO SURVEY LINES
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MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL LAND SURVEYOR

Michael D. Stridde 8-24-99
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE N.A.D. 27

WELL LOCATION
C & E OPERATING, INC.
THOMAS-BARROW CORP. #C16
JOSE MARIA CASTILLO GRANT, A-10
REFUGIO COUNTY, TEXAS

DWG. No. :	9973-506
SCALE :	1" = 2000'
DATE :	8/99
DWN. BY :	BR

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (361)289-1385

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

EXPEDITE

Form W-1
Rev. 3/93

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office

Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150, 9001' or deeper - $200

Purpose of filing (mark appropriate boxes): [ ] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter [ ] Horizontal [ ] Directional Well [ ] Sidetrack [X] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42- 391 32304; Permit No. 487131; Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Refugio
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. C
7. RRC Lease/ID No.:
8. Well No.: 16
9. Total Depth: 6050

2. Address (including city and zip code):
345 Commerce Green Blvd.
Sugar Land, Texas 77478

10 Location
- Section _____ Block _____ Survey Jose Maria Castillo Abstract No. A-10
- This well is to be located 8 miles in a west direction from Woodsboro, which is the nearest town in the county of the well site.

943730

11. Distance from proposed location to nearest lease or unit line: 5194.3 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 16692.7 (OUTLINE ON PLAT.)

Granted 11/12/99

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6500) 4001	6500	467/1200	40	40	No	NA	O/G	1	1
Peponi Ranch (Frio 4800) 70553200	4800	467/1200	40	40	No	NA	~~O/~~G	1	1
Laura Thomson (5600) 52285332	5600	467/1200	40	40	No	NA	~~O/~~G	1	1

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit: 7071.4' FNL & 5194.3' FEL
- Survey/Section: 5417.6' FSL & 338.7' FWL

If a directional well, show also projected bottom-hole location:
- Lease/Unit
- Survey/Section

Code 6050

23. Is this a pooled unit? Yes [ ] (Attach Form P-12 and certified plat.) No [X]

24. Is item 17 less than item 16 (substandard acreage for any field applied for)? Yes [ ] (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks
Please expedite $150 + $50 = $200
Amended to show additional field names

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening — Terry L. Boening, President
Signature — Name and title of operator's representative

11/9/99 — (361)741-3600
Date: mo. day yr. — Tel.: Area Code Number

150 AP
50 WT
202888

• RRC Use Only •

487131

MAPPING 391-32304

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

EXPEDITE

Form W-1
Rev. 3/93

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150, 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-391-32304
▶ Permit No. 487131
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Refugio
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. C
7. RRC Lease/ID No.:
8. Well No.: 16
9. Total Depth: 6050

2. Address (including city and zip code):
345 Commerce Green Blvd.
Sugar Land, Texas 77478

943730

10. Location
• Section _____ Block _____ Survey Jose Maria Castillo Abstract No. A-10
• This well is to be located 8 miles in a west direction from Woodsboro, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 5194.3 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 16692.7 (OUTLINE ON PLAT.)

Granted 9/15/99

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6500) 4001	6500	467/1200	40	40	No	NA	O/G	2	2
		Code A1200							

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 7071.4' FNL & 5194.3' FEL
• Survey/Section 5417.6' FSL & 338.7' FWL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

Code 6050

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]
24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]
25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.
26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see instructions for Rule 37. Yes [X] No [ ]

Remarks
~~Redrill of Thomson Barrow Corp. "C" #15~~
Please expedite $150 + $50 = $200

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening, President
Signature — Name and title of operator's representative
8/30/99 — (361)741-3600
Date: mo. day yr. — Tel: Area Code Number

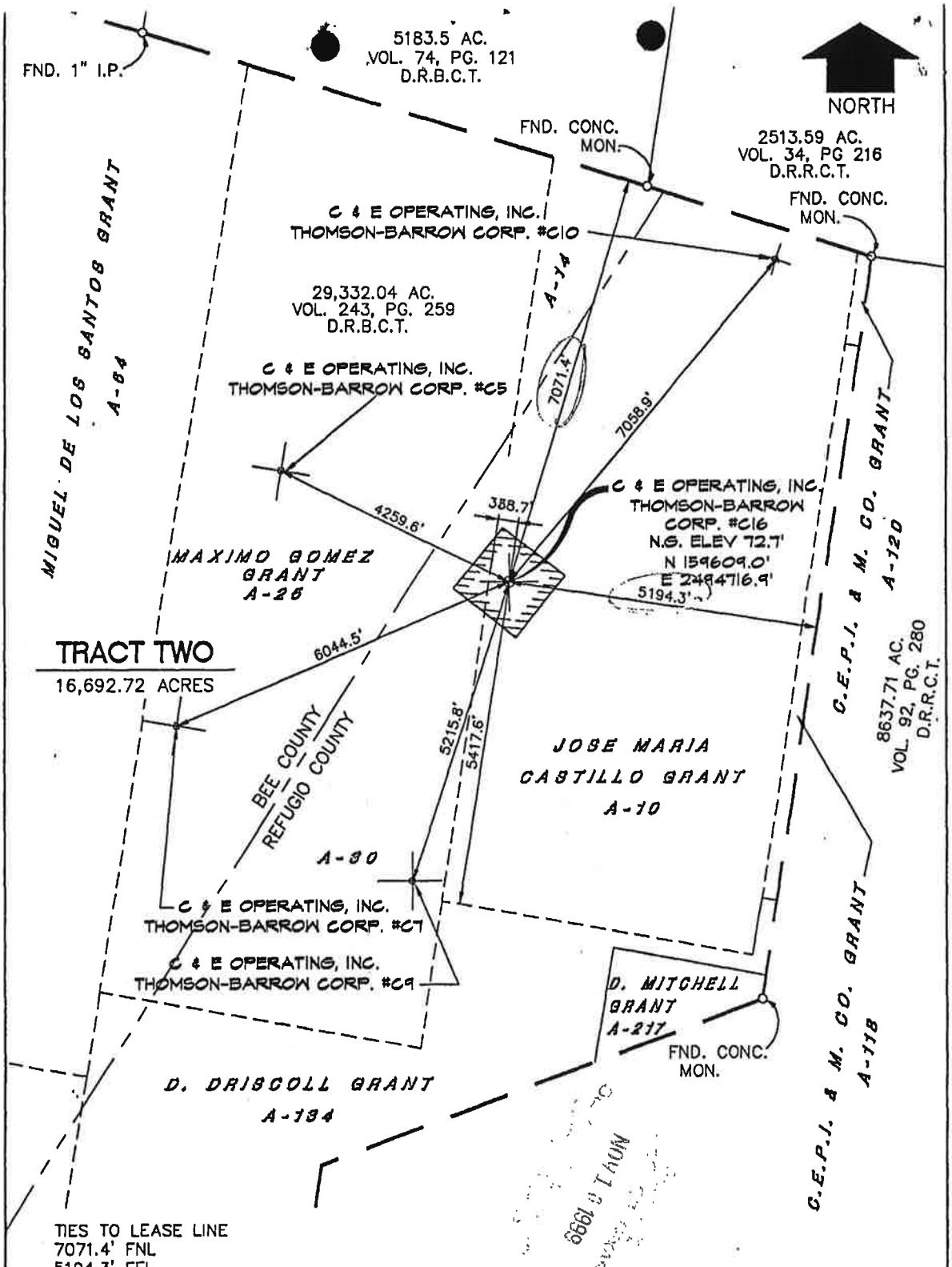
• RRC Use Only •

150 App
50 WI
200

211112 AUG 31 99

487131

MAPPING 391-32304



TIES TO LEASE LINE
7071.4' FNL
5194.3' FEL

TIES TO SURVEY LINES
5417.6' FSL
338.7' FWL

DISTANCE FROM NEAREST TOWN
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MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

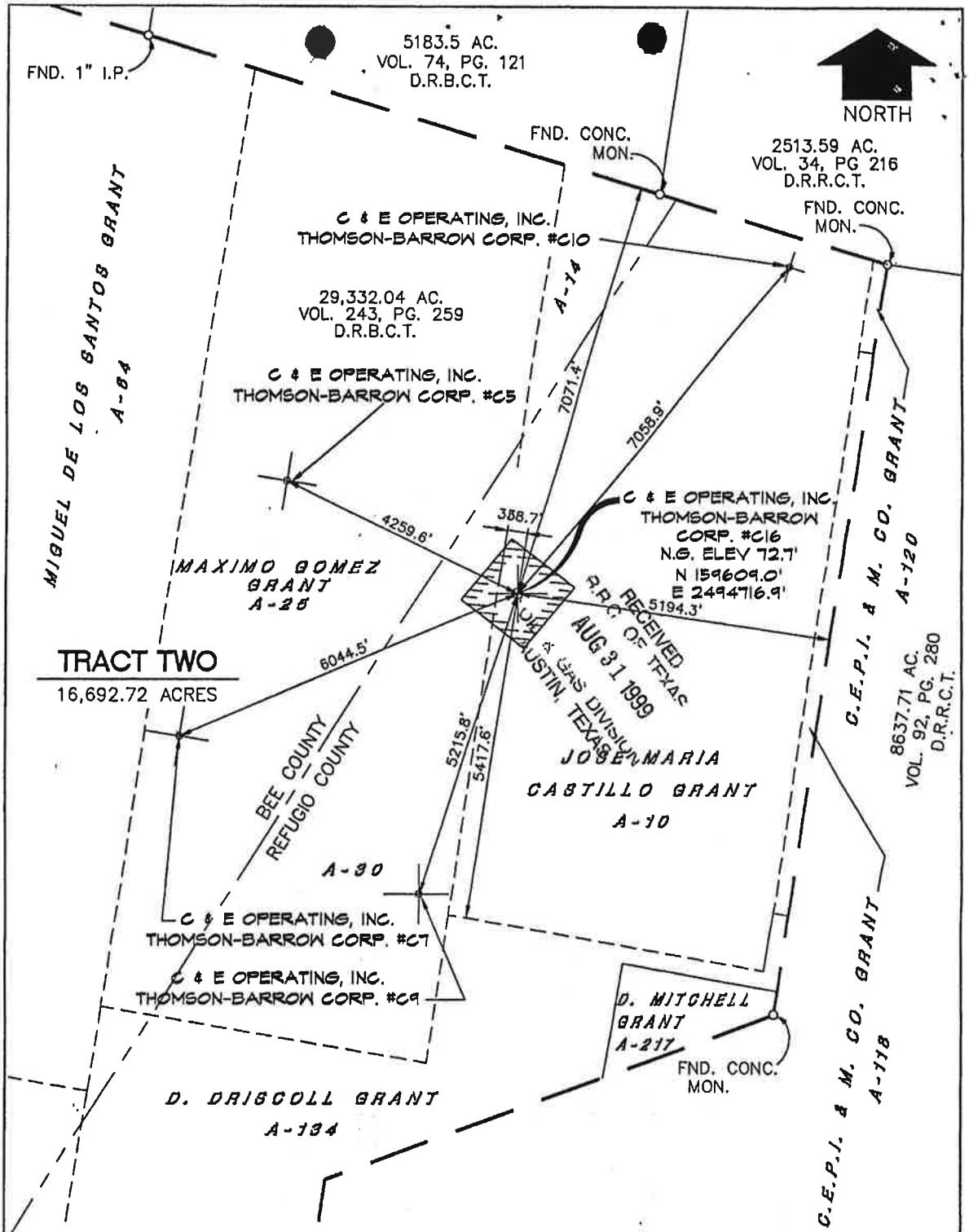
Michael D. Stridde 8-24-99
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE N.A.D. 27

WELL LOCATION
C & E OPERATING, INC.
THOMAS-BARROW CORP. #C16
JOSE MARIA CASTILLO GRANT, A-10
REFUGIO COUNTY, TEXAS

DWG. No. :	9973-506
SCALE :	1"= 2000'
DATE :	8/99
DWN. BY :	BR

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (361)289-1385



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5194.3' FEL

TIES TO SURVEY LINES
5417.6' FSL
338.7' FWL

DISTANCE FROM NEAREST P.O.R.
8 MILES W OF WOODSBORO

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MICHAEL D. STRIDDE

STATE OF TEXAS
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MICHAEL D. STRIDDE
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PROFESSIONAL
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Michael D. Stridde 8-24-99
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE N.A.D. 27

WELL LOCATION
C & E OPERATING, INC.
THOMAS-BARROW CORP. #C16
JOSE MARIA CASTILLO GRANT, A-10
REFUGIO COUNTY, TEXAS

DWG. No. :	9973-508
SCALE :	1"= 2000'
DATE :	8/99
DWN BY :	BR

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. ● CONSULTING ENGINEERS ● (361)289-1385

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-4
(Rev. 8-27-69)

mult. doc

APPLICATION FOR MULTIPLE COMPLETION

391-32304

1. Field Name	2. RRC District
Laura Thomson / Peponi Ranch	02
3. Operator	4. County
C&E Operating, Inc. #120079	Refugio
5. Lease Name(s) and RRC Lease Number(s)	6. Well Number
Thomson-Barrow Corp. C	16

7. Are the reservoirs herein requested to be used for dual (type of completion – dual, triple, etc.) completion presently recognized by the Commission as separate reservoirs as the result of prior applications for permission to multiply complete? no (yes or no). If answer to this question is "NO", ALL OPERATORS IN THE FIELD MUST BE FURNISHED A COPY OF THIS APPLICATION.

8. Identify one instance (operator, lease, well number) wherein the Commission granted a multiple completion including these same zones in this field. _____

RECEIVED
NOV 22 1999
OIL & GAS DIVISION
AUSTIN, TEX.

9. MULTIPLE COMPLETION DATA

	..... DUAL COMPLETION			
	1st (Upper) Zone	2nd Zone	3rd Zone	4th Zone
(a) RRC Alphabetic Code Designation (Multiple Well Completion Designation – See Instructions on reverse side.)	52285-032 C	70553-200 T		
(b) Name of Reservoir (If reservoir name is shown on proration schedule, use that name.)	(5600)	(Frio 4800)		
(c) Type of Production (oil or gas) (If used for injection, state type fluid injected.)	Gas	Gas		
(d) Depth to Top of Pay Section (ft.)	5021	5755		
(e) Depth to Bottom of Pay Section (ft.)	5028	5758		
(f) Producing Interval(s) (top to bottom)	5021-28	5755-58		

RECEIVED
R.R.C. OF TEXAS
NOV 17 1999
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

10. The following supporting evidence is attached: (Please answer YES or NO.)
(a) Electrical Log with tops and bottoms of producing zones and perforated intervals shown and marked No.
(b) Packer Setting Report and/or Cementing Report Yes.
(c) Communication or Packer Leakage Test (with Recorder Charts) Yes.
(d) Sketch of Multiple Completion Installation Yes.

11. List below or on an attached sheet ALL OFFSET OPERATORS to the lease on which this well is located together with their correct mailing address.

C&E owns all offset leases.

(a) Attach Letters of Waiver from Offset Operators, OR
(b) Furnish each Offset Operator with a completed copy of this form and give date furnished. _____.

(APPLICANTS MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

12. Is this a regular location with respect to all zones? Yes (yes or no)

13. If the answer to Item 12 is "NO", has a Rule 37 Hearing been held on zones affected by such rule? _____ (yes or no)
State the Rule 37 Case Number. _____ .

14. Is the fluid produced from any of these zones conducive to corrosion to the extent that any resulting corrosion will damage tubing or casing? No

15. Remarks:

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

11/15/99
Date

Terry L. Boening
Signature

C&E Operating, Inc.
Operator

Terry L. Boening
Name of Person (type or print)

345 Commerce Green Blvd.
Street Address or P.O. Box

President
Title of Person

Sugar Land, Texas 77478
City, State Zip Code

Telephone: (361) 741-3600
Area Code

– INSTRUCTIONS –

1. File the original and one copy of this form in the Railroad Commission District Office with the following REQUIRED ATTACHMENTS:
   (a) Packer Setting Report (Form W-5) where applicable and/or Cementing Report (Form W-15).
   (b) Communication or Packer Leakage Test (Form W-6).
   (c) Sketch of Multiple Completion Installation (Form W-4A).
   (d) Letters of Waiver from offset operators, or evidence that notice of the application to multicomplete was given to said operators.
   (e) Electrical Log showing subsurface location of the separate reservoirs claimed.
2. The required attachments in (a), (b), and (c) above shall be filed in duplicate.
3. This form may be used for a dual, triple, or quadruple completion. If more than four zones are involved, use this form and add an attached sheet.
4. If any completion is to be used for injection, separate permission to inject must be obtained from the Commission.
5. For Item 9 (a), the following Multiple Well Completion Designation shall be used.

RRC ALPHABETIC CODE DESIGNATION	FORMERLY USED DESIGNATION
C	C
T	T
U	UT or UC
L	LT or LC
M	MT or MC
P	UMT or UMC
Q	LMT or LMC
D	S-1-C, S-1 or W or W-C
E	S-1-T or W-T
F	S-2-C, S-2 or X or X-C
G	S-2-T or X-T
H	S-3-C, S-3 or Y or Y-C
I	S-3-T or Y-T
J	S-4-C, S-4 or Z or Z-C
K	S-4-T or Z-T
N	S-5-C or S-5
O	S-5-T

Side 2

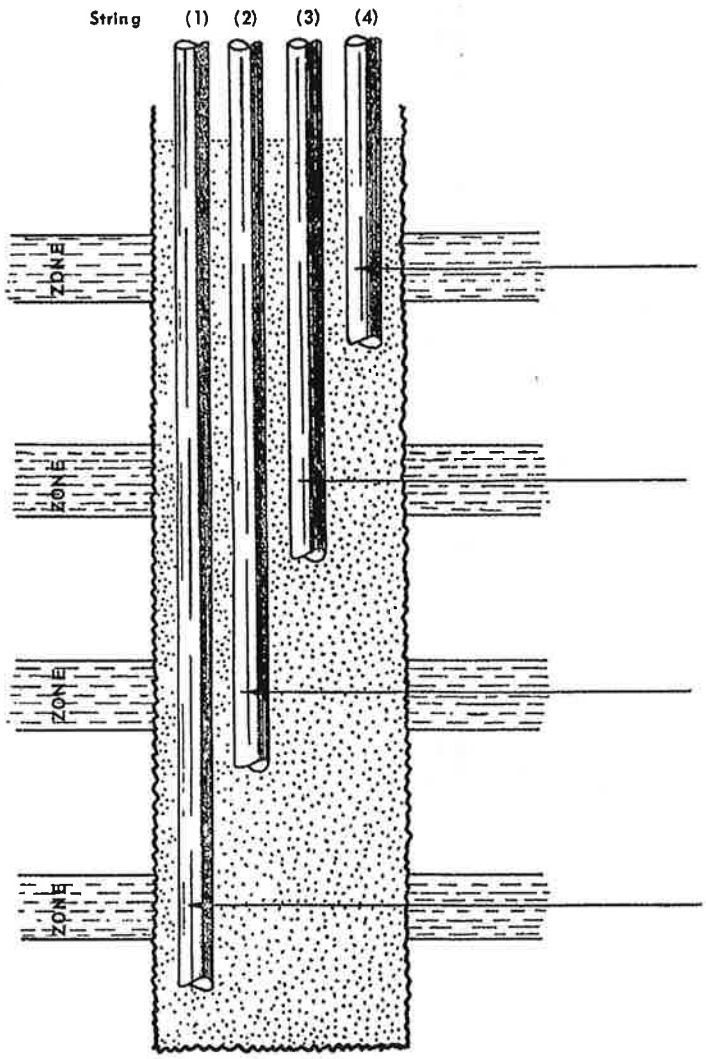
RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-4A
(Rev 8-27-69)

SKETCH OF MULTIPLE COMPLETION INSTALLATION WITH MULTIPLE STRINGS CEMENTED IN PLACE

(Fill out only the side of this form that applies to your installation.)

1. Field Name	2. RRC District
3. *Operator	4. County
5. Lease Name(s) and RRC Lease Number(s)	6. Well Number
7. Type of Multiple Completion -- dual, triple, etc.	8. Date



Top of Cement at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____
_____ inch Casing set at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____
_____ inch Casing set at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____
_____ inch Casing set at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____
_____ inch Casing set at _____ ft.

Total Well Depth at _____ ft.

NOTE: Clearly mark any tubing run on a packer inside casing giving depth at which packer set, depth at which tubing landed, and the above required zone information.

-- INSTRUCTIONS FOR SIDE 2 --

1. Fill out only the side of this form that applies to your multiple completion installation. This side may be used for two, three, or four strings cemented in place. If this sketch cannot be adapted for your installation, draw your installation on an attached sheet showing the identical required information.
2. If this side of the form is used, two copies of Form W-15, CEMENTING REPORT; two copies of Form W-6, COMMUNICATION OR PACKER LEAKAGE TEST; an Electrical Log; and two copies of this form must be filed with the two copies of Form W-4, APPLICATION FOR MULTIPLE COMPLETION, in the RRC District Office.

Side 1

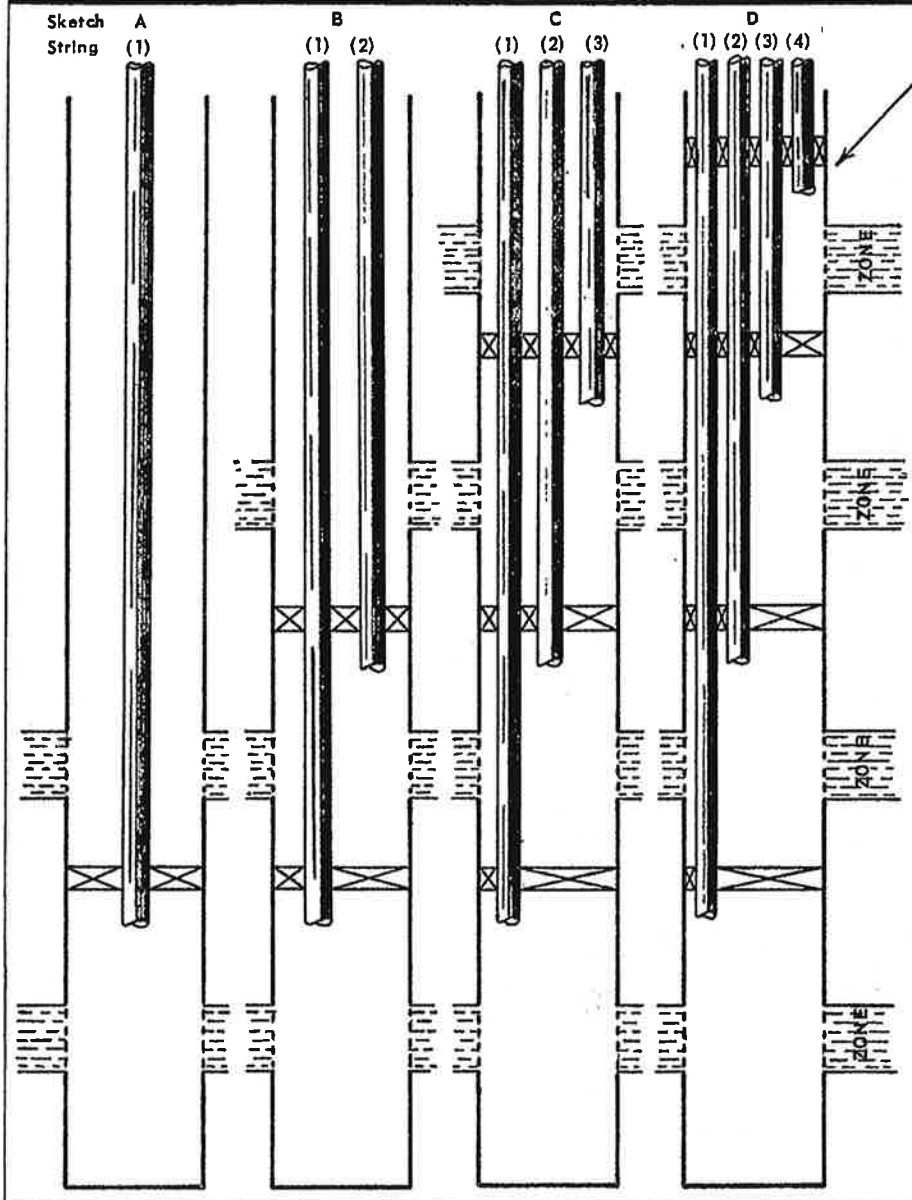
RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-4A
(Rev. 8-27-69)

SKETCH OF MULTIPLE COMPLETION INSTALLATION WITH TUBING INSIDE CASING

(Fill out only the side of this form that applies to your installation.)

1. Field Name: Laura Thomson (5600)/Peponi Ranch (Frio 4800)	2. RRC District: 02
3. Operator: C&E Operating, Inc.	4. County: Refugio
5. Lease Name(s) and RRC Lease Number(s): Thomson-Barrow Corp. "C"	6. Well Number: 16
7. Type of Multiple Completion – dual, triple, etc.: Dual	8. Which sketch below (A, B, C, or D) fits your multi-completion installation? A
	9. Date: 11/15/99



Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____

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Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____

Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation C
Name of Reservoir Peponi Ranch (Frio4800)
Type of Production (oil, gas, or Inj.) Gas
Zone Interval 5021 to 5028
Perforated or Producing Interval 5021 to 5028

Packer set at 5050 ft.
Tubing landed at 5050 ft.

RRC Alphabetic Code Designation T
Name of Reservoir Laura Thomson (5600)
Type of Production (oil, gas, or Inj.) Gas
Zone Interval 5755 to 5758
Perforated or Producing Interval 5755 to 5758

4½ inch Casing set at 5932 ft.
Total Well Depth at 6050 ft.

NOTE: Clearly mark any Cross-over Packers or Side Door Chokes and show depth at which set.

Side Door Choke set at _____ ft. String No. _____ Cross-over Packer set at _____ ft., String No. _____

– INSTRUCTIONS FOR SIDE 1 –

1. Fill out only the side of this form that applies to your multiple completion installation. This side may be used for a dual, triple, or quadruple completion. If none of the sketches fits your installation, draw your installation on an attached sheet showing the identical required information.
2. If this side of the form is used, two copies of Form W-5, PACKER SETTING REPORT (for each packer set); two copies of Form W-6, COMMUNICATION OR PACKER LEAKAGE TEST; an Electrical Log; and two copies of this form must be filed with the two copies of Form W-4, APPLICATION FOR MULTIPLE COMPLETION, in the RRC District Office.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-5
(Rev. 8-27-69)

PACKER SETTING REPORT

(File two copies of this form in the RRC District Office for each packer set.)

1. Field Name	2. RRC District
Laura Thomson (5600) Peponi Ranch (Frio 4800)	02
3. Operator of Well	**4. County**
C&E Operating, Inc.	Refugio
5. Lease Name(s) and RRC Lease Number(s)	**6. Well Number**
Thomson-Barrow Corp. "C"	16
7. Make and Type of Packer	**8. Depth at which Packer was set (ft.)**
Baker Model "R" DG	5050'
9. Depth Measurement in Item 8 furnished by:	**10. Date Packer was set**
Tubing measurement	10/26/99

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SAN ANTONIO, TEXAS

11. Remarks:

I personally supervised the setting of the packer described above in Items 1 through 11. The purpose of setting this packer was to effect a seal in the annular space between the two strings of pipe where the packer was set so as to prevent the commingling, in the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer. The make and type packer set was adequate to effectively and absolutely seal off the annular space between the two strings of pipe when it was properly set. This packer was properly set.

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

11/15/99
Date

Terry L. Boening
Signature of Person Making Report

C&E Operating, Inc.
Employer

Terry L. Boening
Name of Person (type or print)

345 Commerce Green Blvd.
Street Address or P.O. Box

President
Title of Person

Yoakum, TX 77478
City, State Zip Code

Telephone: (361) 741-3600
Area Code

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-6
(Rev. 1-8-70)

COMMUNICATION OR PACKER LEAKAGE TEST

1. Field Name: Peponi Ranch (Frio 4800)/Laura Thomson (5600)	2. RRC District: 2
3. Operator: C & E OPERATING, INC.	4. County: REFUGIO
5. Lease Name(s) and RRC Lease Number(s): Thomson-Barrow Corp. "C"	6. Well Number: 16T & 16C

ZONE INFORMATION	1st (Upper) Zone	2nd Zone	3rd Zone	4th Zone
7. RRC Alphabetic Code Designation *(Multiple Well Completion Designation - See Instructions, reverse side.)*	C	T		
8. Name of Reservoir *(If reservoir name is shown on proration schedule, use that name.)*	Peponi Ranch (Frio 4800)	Laura Thomson (5600)		
9. Type of Production (oil or gas) *(If used for injection, state type fluid injected.)*	GAS	GAS		
10. Producing Interval(s)	5021-5028	5755-5758		
11. Date & Hour well shut-in prior to testing. *(All zones shut-in.)*	11/6/99 @ 1200	11/6/99 @ 1200		
12. Stabilized shut-in pressure prior to producing any zone (psig)	1945	1950		

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DATA ON PRODUCING COMPLETION	DUAL COMPLETION			
	Test No. 1	Test No. 2	Test No. 3	Test No. 4
13. ZONE PRODUCING *(Fill in under each test the appropriate RRC Alphabetic Code Designation from Item 7.)*	C	T		
14. Stabilized shut-in pressure prior to producing this zone. (psig)	Same as Item 12			
15. Producing method & choke size (inches)	FLOWING 6/64	FLOWING 8/64		
16. Date & Hour completion opened.	11/6/99 @ 2300	1/6/99 @ 1400		
17. Stabilized flowing pressure while producing. (psig)	1931	1682		
18. Length of time required for stabilization of flowing pressure. (hrs)	2.0	2.0		
19. Date & Hour completion shut-in.	11/7/99 @0600	11/6/99 @2300		
20. Stabilized shut-in pressure after producing this zone. (psig)	1945	1950		
21. Time required for obtaining above stabilized shut-in pressure. (hrs.)	7.0	9.0		
22. Amount of oil produced during test. (bbls.)	0	0		
23. Amount of gas produced during test. (MCF)	103	218		
24. Amount of water produced during test. (bbls.)	0	0		
DATA ON SHUT-IN COMPLETION(S)				
25. ZONE(S) SHUT-IN *(Fill in under each test the appropriate RRC Alphabetic Code Designation from Item 7.)*	C	T		
26. Stabilized shut-in pressure prior to this test. (psig)	Same as Item 12 / Same as Item 12 / Same as Item 12			
27. Minimum shut-in pressure during test. (psig)	1945	1950		
28. Maximum shut-in pressure during test. (psig)	1945	1950		
29. Stabilized shut-in pressure at the end of the test. (psig)	1944	1950		
30. Maximum pressure change of shut-in completion during test. (psig) (+ Increase) or (- Decrease)	-1	0		

(APPLICANTS MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

31. Was the Commission's District Office notified of this test 24 hours prior to the shut-in of all completions at the start of this test? _____

32. Remarks:

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

11/12/99
Date

Heather Richardson
Signature

TARGET WELL SERVICES, INC.
Operator

HEATHER RICHARDSON
Name of Person (type or print)

BOX 4659
Street Address or P.O. Box

REGULATORY COORDINATOR
Title of Person

CORPUS CHRISTI, TX. 78469
City, State Zip Code

Telephone: 361 883-8100
Area Code

– INSTRUCTIONS –

1. This form may be used for a dual, triple, or quadruple completion.
2. The original and one copy of this form shall be filed with the Railroad Commission District Office.
3. The Commission's District Office shall be notified 24 hours prior to conducting this Communication or Packer Leakage Test.
4. After allowing all zones to build up and stabilize, the general procedure for the Communication or Packer Leakage Test involves testing each zone by (a) a draw-down producing test (one zone producing and all other zones shut-in) followed by (b) a build-up test after producing that zone (all zones shut-in).
5. Prior to beginning the test, all zones shall be shut-in a sufficient length of time to allow wellhead pressures to become stabilized and for a minimum of 2 hours thereafter. Under shut-in conditions, stabilization may be considered attained when the rate of pressure build-up does not exceed one pound per 30 minute period. If all the zones shut-in will not stabilize in 24 hours, the zones do not have to remain shut-in longer than the 24 hour period, and thus the operator may proceed.
6. If a zone is on gas lift, the gas lift supply valve should be closed except during lifting or producing operations.
7. During any test, the rate of production for the zone being produced shall not be less than the anticipated calendar day allowable for an oil well and shall not be less than the anticipated maximum daily withdrawal for a gas well.
8. For Test No. 1, the well shall be produced in one zone with the other zone(s) shut-in until the producing wellhead pressure has become stabilized and for a minimum of 2 hours thereafter. Under flowing conditions, the pressure may be considered stabilized when it does not vary more than 0.1% of the original shut-in well head pressure during a 15 minute interval. For a producing zone which will not stabilize in 24 hours, the zone does not have to be produced any longer than 24 hours trying to reach stabilization.
9. Following each test, all zones shall be shut-in until wellhead pressures have become stabilized and for a minimum of 2 hours thereafter. If all the zones shut-in will not stabilize in 24 hours, the zones do not have to remain shut-in longer than the 24 hour period, and thus the operator may proceed.
10. For the next test, produce one zone that has not already been produced, with the other zone(s) shut-in.
11. For triple or more completions, repeat Instructions 9 and 10 until all zones have been tested.
12. All pressures shall be measured with recording gauges. The maximum capacity of the pressure recording gauge should not be more than twice the expected shut-in pressure. The original charts shall be submitted along with this form. The accuracy of the recording gauges should be checked periodically during the tests with a dead weight test gauge.
13. For Items 7, 13, and 25, the following Multiple Well Completion Designation shall be used.

RRC ALPHABETIC CODE DESIGNATION	FORMERLY USED DESIGNATION
C	C
T	T
U	UT or UC
L	LT or LC
M	MT or MC
P	UMT or UMC
Q	LMT or LMC
D	S-1-C, S-1 or W or W-C
E	S-1-T or W-T
F	S-2-C, S-2 or X or X-C
G	S-2-T or X-T
H	S-3-C, S-3 or Y or Y-C
I	S-3-T or Y-T
J	S-4-C, S-4 or Z or Z-C
K	S-4-T or Z-T
N	S-5-C or S-5
O	S-5-T

RAILROAD COMMISSION REPRESENTATIVE: The undersigned Commission Representative has witnessed and/or checked the foregoing test.

James C. Nolan
Signature of Commission Representative

MICHAEL L. WILLIAMS, CHAIRMAN
CHARLES R. MATTHEWS, COMMISSIONER
TONY GARZA, COMMISSIONER

RICHARD A. VARELA
DIRECTOR, OIL AND GAS DIVISION
DEBBIE LAHOOD
ASSISTANT DIRECTOR—PERMITTING/PRODUCTION

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

November 24, 1999

Dist 02

C & E OPERATING INC #120079
ATTN TERRY BOENING
345 COMMERCE GREEN BLVD
SUGAR LAND TX 77478

RE: MULTIPLE COMPLETION, Thomson-Barrow Corp C Lease, Well Number 16 Field Name- Laura Thomson/Heponi Ranch, Refugio County, Texas

Dear Operator:

This will acknowledge receipt of electrical log, packer setting and/or cementing report, communication test and diagrammatic sketch which you have submitted in connection with the application for multiple completion on the above well.

Since you have complied with all provisions of Commission Order No. 20-29,541, dated May 19, 1954, and effective June 1, 1954, a formal multiple completion order will not be prepared in this case and the Commission hereby grants multiple completion authority for this well in the following reservoirs, effective November 17, 1999.

WELL CODE DESIGNATION	RESERVOIR	TYPE
C	(5600) #52285-332	Gas ID 175656
T	(Frio 4800) #70553-200	Gas 175685

Sincerely,

Jim Melear, Geologist

JM

cc District Office -San Antonio
Proration -District 2 -Dana Seal
File

MAP ID #92

API# 42-025-32290
DRY HOLE

000057 2568

(92)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

API NO. 42 391 32290

1. RRC District: 02

4. RRC Lease or Id. Number:

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records): Wildcat	3. Lease Name: THOMSON BARROW CORP. C	5. Well Number: 15
6. OPERATOR: C&E OPERATING, INC.	6a. Original Form W-1 Filed in Name of:	10. County: REFUGIO
7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77478	6b. Any Subsequent W-1's Filed in Name of:	11. Date Drilling Permit Issued: 7/16/99
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 7071.70 Feet From north Line and 5194.10 Feet From east Line of the Thomson-Barrow Corp. C		12. Permit Number: 485877
9a. SECTION, BLOCK, AND SURVEY: Jose Maria Castillo A-10	9b. Distance and Direction From Nearest Town in this County: 8.0 mi. from Woodsboro	13. Date Drilling Commenced: 7/19/99
16. Type Well (Oil, Gas, Dry): Dry — Total Depth: 3880'	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s — GAS ID or OIL LEASE # / Oil-O Gas-G / WELL #	14. Date Drilling Completed: 7/27/99
18. If Gas, Amt. of Cond. on Hand at time of Plugging		15. Date Well Plugged: 7/27/99

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	7/27/99	7/27/99	7/27/99					
20. Size of Hole or Pipe in which Plug Placed (inches)	7 7/8	7 7/8	8 5/8					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1500	1009	13					
*22. Sacks of Cement Used (each plug)	50	35	10					
*23. Slurry Volume Pumped (cu. Ft.)	60	42	12					
*24. Calculated Top of Plug (ft.)	1400	909	3					
25. Measured Top of Plug (if tagged) (ft.)	1390							
*26. Slurry Wt. # / Ga.	15.6	15.6	15.8					
*27. Type Cement	A	A	H					

RECORD CODIFICATION AUG 25 1999

Return to Records Retention

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. # / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	950	950	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "Junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

7/16/99

AFTER BOARD LETTER DATED 1450 ft.

Depth 7/16/99

19(A) Exception Dated 950 ft.

Surface Casing ft.

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30. LIST ALL OPEN HOLE AND / OR PERFORATED INTERVALS

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

LARRY LANGLEY
Signature of Cementer or Authorized Representative

BJ Services Company
Name of Cementing Company

CERTIFICATE:

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boening — Terry L. Boening — President — 8/5/99 — Phone (361) 741-3600

REPRESENTATIVE OF COMPANY — TITLE — DATE — A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

391-32290

MAPPING 173

31. Was Well filled with Mud - Laden Fluid according to the regulations of the Railroad Commission ☒ Yes ☐ No	32. How was Mud Applied? Circulate		33. Mud Weight 10.0 LBS / GAL
34. Total Depth 3880'	Other Fresh Water Zones by T.D.W.R. TOP 0	BOTTOM 950	35. Have all Abandoned Wells on this Lease been Plugged according to R.R.C Rules? ☒ Yes ☐ No
Depth of Deepest Fresh Water 1450'			36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
BJ SERVICES COMPANY - 411 A HARTMAN ROAD VICTORIA, TEXAS 77905

Date R.R.C District Office notified of plugging 7/27/99

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

Thomson-Barrow Corp
5847 San Felipe, Ste. 3830
Houston, TX 77057

39. Was Notice Given Before Plugging to Each of the Above?
Yes

FILL IN FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical / Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs:
☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-3 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ Bbls *

* File FORM P-1 (Oil Production Report) for month this oil was produced.

R.R.C USE ONLY

Nearest Field _____

REMARKS

Commission: Fill in shaded areas
Operator: Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
42-391

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
C & E Operating, Inc.	120079	02	

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No.
Wildcat	42-391 32290	485877

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
Thompson-Barrow Corp. C			15

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		7-20-99					
13. *Drilled hole size		12 1/4					
*Est. % wash or hole enlargement		30					
14. Size of casing (in. O.D.)		8 5/8					
15. Top of liner (ft.)							
16. Setting depth (ft.)		950					
17. Number of centralizers used		8					
18. Hrs. waiting on cement before drill out		12					
1st Slurry	19. API cement used: No. of sacks ▶	261					
	Class ▶	A					
	Additives ▶	Salt					
2nd Slurry	No. of sacks ▶	120					
	Class ▶	A					
	Additives ▶	Cacl2					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped. Volume (cu. ft.) ▶	582					
	Height (ft.) ▶	1410					
2nd	Volume (cu. ft.) ▶	144					
	Height (ft.) ▶	349					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	726					
	Height (ft.) ▶	1759					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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AUG 09 1999
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
24. Cementing date								
25. Size of hole or pipe plugged (in.)								
26. Depth to bottom of tubing or drill pipe (ft.)								
27. Sacks of cement used (each plug)								
28. Slurry volume pumped (cu. ft.)								
29. Calculated top of plug (ft.)								
30. Measured top of plug, if tagged (ft.)								
31. Slurry wt. (lbs/gal)								
32. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Tony Cano, Service Supervisor — Name and title of cementer's representative

BJ Services Co. — Cementing Company

Tony Cano — Signature

411 Hartman Rd. — Address

Victoria, TX 77905 — City, State, Zip Code

361 575-6446 — Tel.: Area Code Number

7-20-99 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative

President — Title

Terry L. Boening — Signature

345 Commerce Green Blvd., Sugar Land, TX 77478 — Address, City, State, Zip Code

(361)741-3600 — Tel.: Area Code Number

8/5/99 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- **Form W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- **Form W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry holes**, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

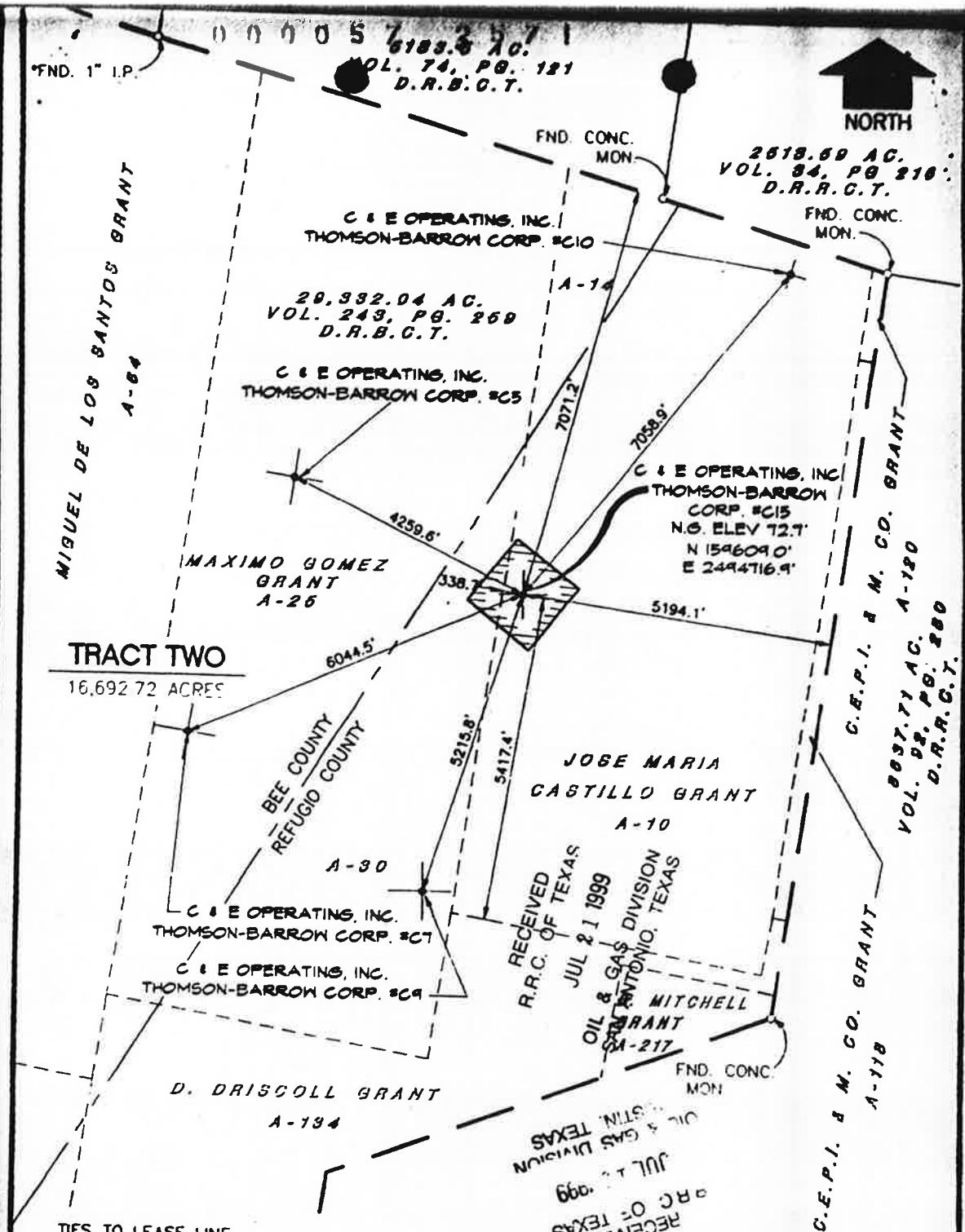
D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.



TIES TO LEASE LINE
7071.2' FNL
5194.1' FEL

TIES TO SURVEY LINES
5417.4' FSL
338.7' FWL

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON JULY 9, 1999 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

DISTANCE FROM NEAREST TOWN
8 MILES W OF WOODSBORO

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

7-13-99
DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE N.A.D. 27

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C15
JOSE MARIA CASTILLO GRANT, A-10
REFUGIO COUNTY, TEXAS

DWG. No.	9973-506
SCALE	1" = 2000'
DATE	7/99
DWN. BY	CAV

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX ● CONSULTING ENGINEERS ● (512) 289-1385

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

169

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EXPEDITE X4 problem

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-391-32290
▶ Permit No. 485877
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report)	3. RRC Operator No.	4. RRC District No.	5. County of Well Site
C&E Operating, Inc.	120079	02	Refugio

2. Address (including city and zip code)	6. Lease Name (32 spaces maximum)	7. RRC Lease/ID No.	8. Well No.	9. Total Depth
345 Commerce Green Blvd. Sugar Land, TX 77478	Thomson-Barrow Corp. "C"		15	6500

943730

10. Location
• Section _____ Block _____ Survey Jose Maria Castillo Abstract No. A-10
• This well is to be located 8 miles in a west direction from Woodsboro, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 5194.1 ft.

12. Number of contiguous acres in lease, pooled unit, or unitized tract 16692.7 (OUTLINE ON PLAT.)

Granted 7/16/99

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify).	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6500)	6500	467/1200	40	40	No	NA	O/G	1	1
4001		Code A 1200							
		Code O 6500							

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 7071.2' FNL & 5194.1' FEL
• Survey/Section 5417.4' FSL & 338.7' FWL

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks

Please expedite $150 + $50 = $200

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening, President
Signature Name and title of operator's representative

7/14/99 (361)741-3600
Date mo. day yr. Tel.: Area Code Number

150 app
50 exp

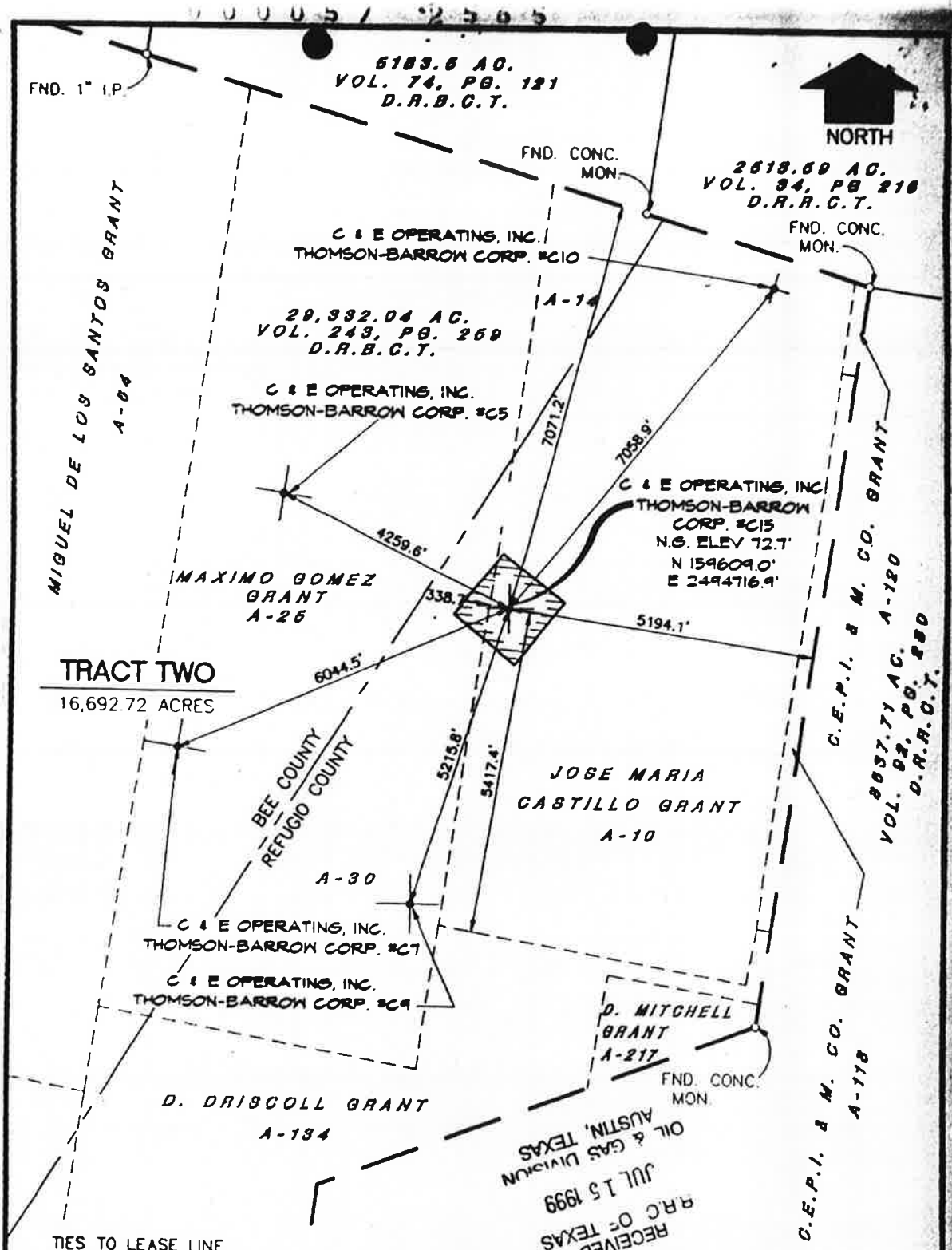
• RRC Use Only •

209412 JUL 1599

485877

391-32290

MAPPING



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JUL 15 1999
OIL & GAS DIVISION
AUSTIN, TEXAS

TIES TO LEASE LINE
7071.2' FNL
5194.1' FEL

TIES TO SURVEY LINES
5417.4' FSL
338.7' FWL

DISTANCE FROM NEAREST TOWN
8 MILES W OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON JULY 9, 1999 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

7-13-99
DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE N.A.D. 27

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C15
JOSE MARIA CASTILLO GRANT, A-10

DWG. No.	9973-506
SCALE	1" = 2000'
DATE	7/99
DRWN. BY	CAV

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX • OIL FIELD ENGINEERS • (512)289-1345

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
☒ Drill ☐ Deepen (below casing) ☐ Deepen (within casing) ☐ Plug Back ☐ Re-Enter
☐ Horizontal ☐ Directional Well ☐ Sidetrack ☒ Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-391 32290
Permit No. 485877
Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Refugio

2. Address (including city and zip code): 345 Commerce Green Blvd. Sugar Land, Texas 77478
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. "C"
7. RRC Lease/ID No.:
8. Well No.: 15
9. Total Depth: 6500

10. Location
• Section _____ Block _____ Survey Jose Maria Castillo Abstract No. A-10
• This well is to be located 8 miles in a West direction from Woodsboro which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 5294.1 ft. 5461.3
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 16692.7 (OUTLINE ON PLAT.)

Granted 9/17/99

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6500)	6500	467/1200	40	40 ✓	No	NA	O/G	1	1
4051									
			Code O	6500					

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 7299.3' FNL & 5461.3' FEL
• Survey/Section 5221.2' FSL & 71.9' FWL

If directional well, show also projected bottom-hole location:
• Lease/Unit Code A 200
• Survey/Section

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SEP 14 1999
OIL & GAS DIVISION
AUSTIN, TEXAS

23. Is this a pooled unit? Yes ☐ ▶ (Attach Form P-12 and certified plat.) No ☒

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes ☐ ▶ (Attach Form W-1A) No ☒

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes ☐ No ☒ If subject to Rule 36, is Form H-9 filed? Yes ☐ No ☐ ▶ If no, explain in Remarks

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes ☒ No ☐
If not, and if the well requires a Rule 37 or 38 exception, see instructions for Rule 37.

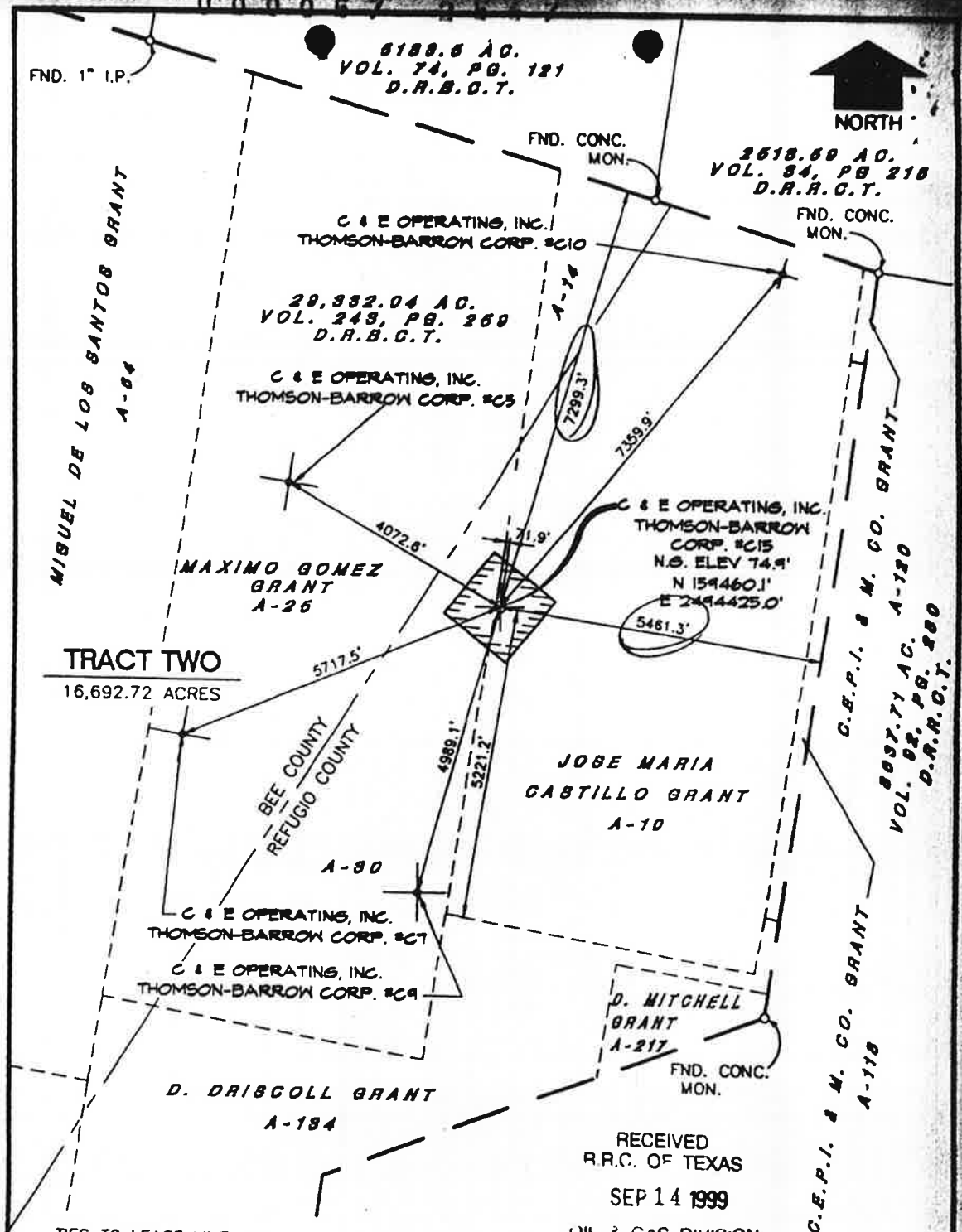
Remarks
Resurveyed to show correct location

I certify that information stated in this application is true and complete, to the best of my knowledge.
Signature: Terry L. Boening
Terry L. Boening, President
Name and title of operator's representative
Date: 9/13/99 (mo. day yr.)
Tel.: (361)741-3600 (Area Code Number)

• RRC Use Only •
200562

485877

MAPPING 391-32290



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R.R.C. OF TEXAS
SEP 14 1999
OIL & GAS DIVISION
AUSTIN, TEXAS

TIES TO LEASE LINE
7299.3' FNL
5461.3' FEL

TIES TO SURVEY LINES
5221.2' FSL PROJECTED
71.9' FWL

DISTANCE FROM NEAREST TOWN
8 MILES W OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON JULY 13, 1999 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

7-14-99
DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE N.A.D. 27

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C15
JOSE MARIA CASTILLO GRANT, A-10
MCMULLEN COUNTY, TEXAS

JOB NO.	9973-506
SCALE	1" = 2000'
DATE	7/99
DWN. BY	CAV

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX • CONSULTING ENGINEERS • (512)289-1385

MAP ID #93

API# 42-025-01559
OIL WELL
PLUGGED

Plugging Record 00007 RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form W-3 (93) Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id Number: 02907

2. FIELD NAME (as per RRC Records): LAURA THOMSON (5600 No. 4)

3. LEASE NAME: LAURA T. BARRON 'B'

5. Well Number: 6

6. OPERATOR: EXXON CORPORATION

10 County: BEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11. Date Drilling Permit Issued: 8-28-61

8. SURFACE LOCATION: 3100 FEET FROM E OF W LINE, AND 3500 FEET FROM NE OF SW LINE

12. Date Drilling Commenced: 9-28-61

9. SECTION, BLOCK, AND SURVEY: PAT DOWNEY (A-20)

13. Date Drilling Completed: 9-14-61

15. Type of Well (Oil, Gas, Dry)*: OIL

16. Type of Completion (Single, Dual, Etc.): SINGLE

17. Total Depth: 5700

14. Date Well Plugged: 8-15-73

18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19. Manner of Placement

PLUG #1	10	SACKS	TOP	2960	BOTTOM	3320	TYPE CLASS H
PLUG #2	10	SACKS	TOP	1472	BOTTOM	1760	TYPE CLASS H
PLUG #3	1	SACKS	TOP	4	BOTTOM	40	TYPE CLASS H
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? POWER PUMP

22. Mud Weight: 9.5 LBS/GAL

23. Depth of Deepest Fresh Water: 1200 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25 If NO, Explain

26. Name and Address of Party Plugging Well: LULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
* 7 5/8"	523.93		519.93	
** 2 7/8"	5678.06		5674.06	
1 1/4"	5555.82		2235.82	

* 7 5/8" CASING CEMENTED TO SURFACE. ** 2 7/8" X 7 7/8" ANNULUS CEMENTED FROM 1225' TO SURFACE.

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS + COMPANY, BOX 1490, ALICE, TEXAS 78332

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29 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle — GRADY COYLE — REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST — TITLE

8-31-73 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

20. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS Cut off casing 4' below ground level and capped well.

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Laura Thomson (5600) No. 41	*2. RRC District: 2
*3. Operator: Exxon Corporation	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): LAURA THOMSON "B" 02907	*6. Well Number: B-6
*7. Location (Section, Block, and Survey): PAT DOWNEY (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
*8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/15/73	8/15/73	8/15/73			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"	2-7/8"			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	3320'	1760'	40'			
22. Sacks of Cement Used (each plug)	10	10	1			
23. Slurry Volume Pumped (cu. ft.)	11.8	11.8	1.18			
24. Calculated Top of Plug (ft.)	2960'	1472'	4'			
*25. Measured Top of Plug (if tagged) (ft.)						

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SEP 4 1973
RAILROAD COMMISSION OF TEXAS
CORPUS CHRISTI, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:

Circ well w 9.5# mud.
Cut off 4' below grd level, capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J. W. Culberson, Jr.
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr., Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 22, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-31-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

PLEASE WIRE AUTHORITY DW (93)

Application to Drill, Deepen, Plug Back.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK Drill

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE,
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, fo this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line over 467 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 1,600 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date December 12, 19 62

Name of company or operator

Name Humble Oil & Refining Company

Address Wilson Tower

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Laura T. Barrow "B"

Number of Acres 6127.5 Well No. 6

Number of wells on lease 4

Elevation (Ft. above sea level) Section No. Block No.

Survey M. De Los Santos (A-64)

Zone or Reservoir

To be Located in Laura Thomson Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.)

Bee County

Approx. 7 Miles Northeast direction from Papalote, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling As soon as permitted

Depth to which you propose to drill 6,000 feet.

Date work will start deepening

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name

Address

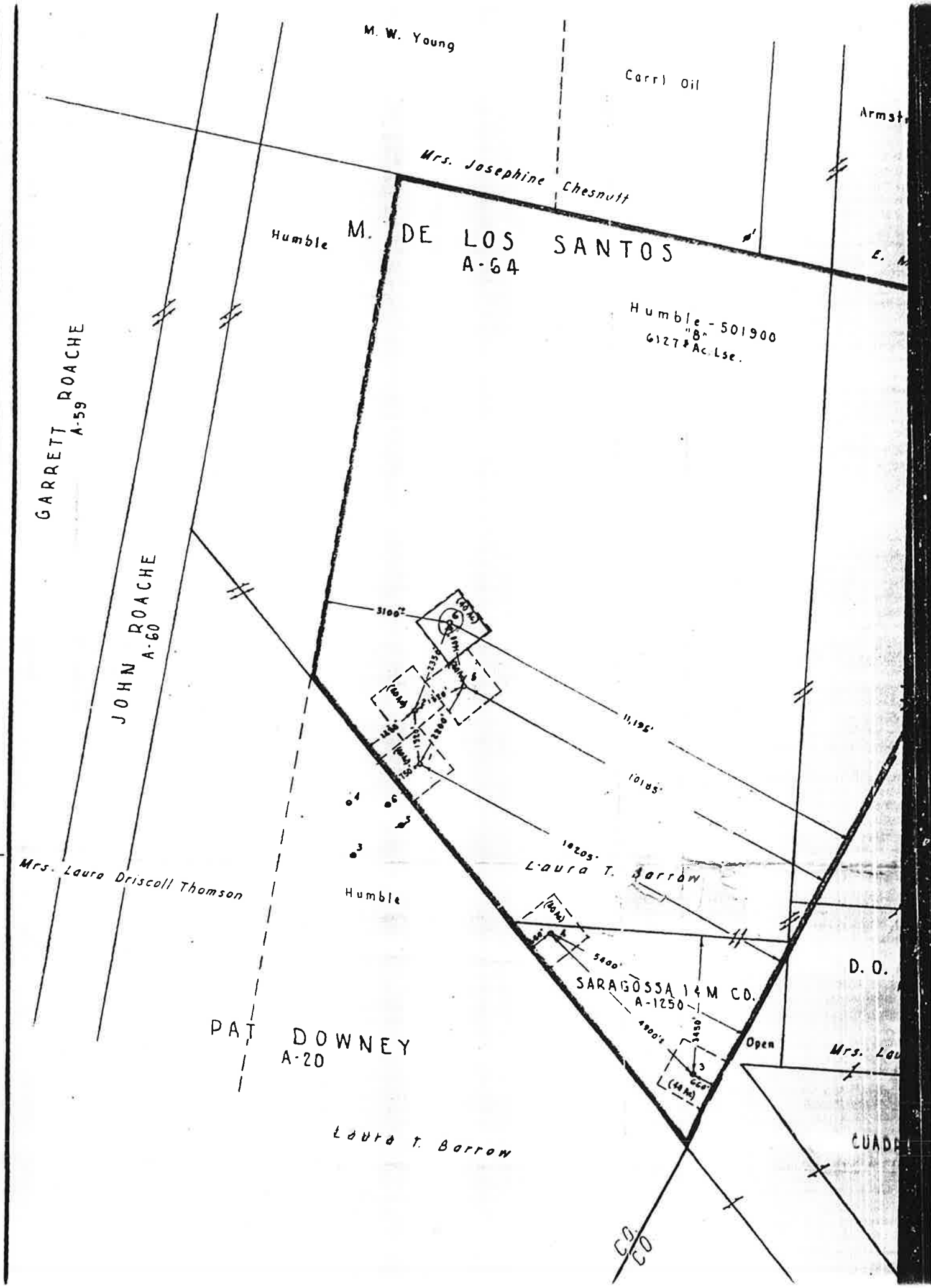
Loc: 1600' Northwest No. 5 and 2350' Northeast No. 2

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

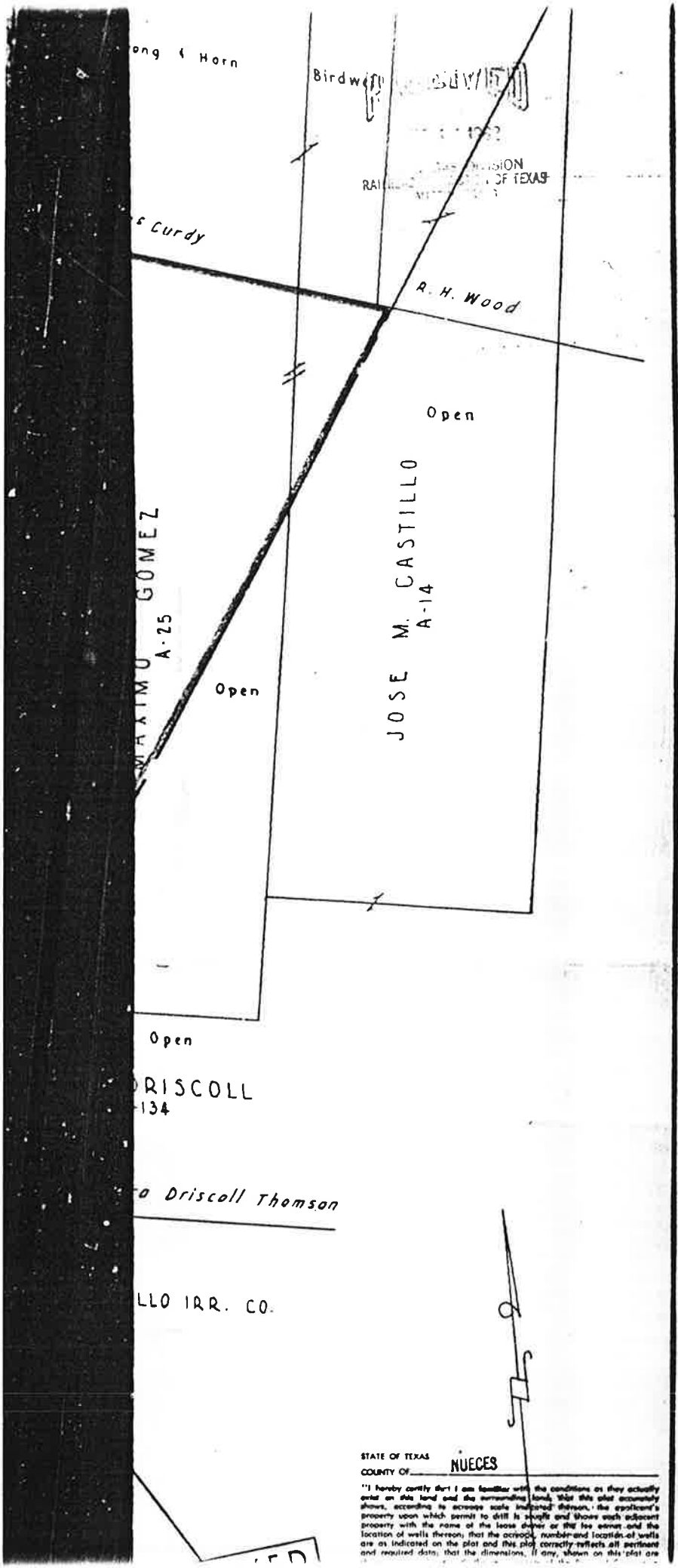
DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

025-01559

RECEIVED
DEC 13 1962
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS



M. W. Young
Carrl Oil
Armstr
Mrs. Josephine Chesnutt
Humble
M. DE LOS SANTOS
A-64
Humble - 501900
"B"
6127 Ac. Lse.
GARRETT ROACHE
A-59
JOHN ROACHE
A-60
3100'
11,195'
10185'
10205'
Laura T. Barrow
Mrs. Laura Driscoll Thomson
Humble
5400'
SARAGOSSA 1 M CO.
A-1250
4900'
3450'
Open
D. O.
PAT DOWNEY
A-20
Laura T. Barrow
CUADR
CO.
CO


ong & Horn
Birdwell
RAILROAD COMMISSION OF TEXAS
s Curdy
A. H. Wood
Open
JOSE M. CASTILLO
A-14
MAXIMO GOMEZ
A-25
Open
Open
RISCOLL
-134
o Driscoll Thomson
LLO IRR. CO.
STATE OF TEXAS
COUNTY OF NUECES
"I hereby certify that I am familiar with the conditions as they actually exist on this land and the surrounding lands, that this plat accurately shows, according to acreage scale indicated thereon, the applicant's property upon which permit to drill is sought and shows each adjacent property with the name of the lease owners or tract numbers and the location of wells thereon; that the acreage, number and location of wells are as indicated on the plat and this plat correctly reflects all pertinent and required data; that the dimensions, if any, shown on this plat are

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

File No. _____ Form 2 Well Record

Operator Humble Oil & Refining Company Address Wilson Tower, Corpus Christi, Texas

County Bee Survey M. De Los Santos (A-64) Block No. - Sec. No. -

Lease Name Laura T. Barrow "B" Well No. 6 Elevation 113' DF (Above Sea Level)

Name of Field in which well is located Laura Thomson (5600' No. 4)

Form 1 (Notice of Intention to Drill) Was Filed in Name of Humble Oil & Refining Company

Is this a NEW WELL? Yes DEEPENING? _____ or a WORK-OVER? _____

If this is a NEW WELL, show when drilling commenced and when drilling was completed.

If this is a PLUG-BACK or DEEPENING operation to a different reservoir, show when work-over commenced and when completed.

(Drilling) Commenced December 19, 19 62 (Drilling) Completed December 30, 19 62

Correspondence regarding this well should be sent to: Name Mr. W. J. Barrett Address Wilson Tower Corpus Christi, Texas

Has an allowable been assigned to this well? No

SIZE	PUT IN WELL Ft.	PUT IN WELL In.	PULLED OUT Ft.	PULLED OUT In.	LEFT IN WELL Ft.	LEFT IN WELL In.	PACKERS AND SHOES
7-5/8"	1609.65		None		1609.65		Guide Shoe & Float Collar
2-7/8"	5681.61		None		5681.61		Guide Shoe & Float Collar

Initial Production of Gas—Volume 90 MCF 24 hrs. Pressure 710 lbs. per square inch

Initial Production of Oil: Barrels 149.96

Initial Production of Distillate: Barrels -

Is this an OIL well? Yes, a GAS well? _____, or a Dry HOLE? _____

DESCRIPTION OF PROPERTY

NORTH

11,195' NW of the SE line of the lease (Bee - Refugio County Line) and approximately 3100' SE of the NW line of the lease; also being 1600' NW of Laura T. Barrow "B" #5 and 2350' SE of Laura T. Barrow "B" #2.

WEST

EAST

SOUTH

GENERAL REMARKS

Drilled by S D & S Drilling Co. Rig No. 1

Tubingless completion in Laura Thomson (5600' #4) perforations 5537 - 5539 feet.

RECEIVED
JAN 14 1963
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

RECEIVED
JAN 11 1963
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Sand & Shale	0	1660	
Shale & Sand	1660	3956	
Shale -	3956	5423	
Shale & Sand	5423	5710	
TOTAL DEPTH		5710	

Method of shutting off water Casing & Cement Is water completely shut off? Yes

Amount of water with oil Trace per cent

I, A. G. Ross

being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

A. G. Ross
Representative of Company.

Subscribed and sworn to before me this 3rd day of January, 1963

J. L. Galloway
Notary Public

Refugio County, Texas.

RECEIVED
JAN 11 1963
Railroad Commission of Texas
Austin, Texas

SUPPLEMENTAL
Form 2
Well Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

File No. 32115

Operator Humble Oil & Refining Company Address Wilson Tower, Corpus Christi, Texas

County Bee Survey M. De Los Santos (A-64) Block No. - Sec. No. 6

Lease Name Laura T. Barrow "B" Well No. 6 Elevation 113' DF (Above Sea Level)

Name of Field in which well is located Laura Thomson (5600' No. 4)

Form 1 (Notice of Intention to Drill) Was Filed in Name of Humble Oil & Refining Company

Is this a NEW WELL? DEEPENING? or a WORK-OVER? Yes

If this is a NEW WELL, show when drilling commenced and when drilling was completed.

If this is a PLUG-BACK or DEEPENING operation to a different reservoir, show when work-over commenced and when completed.

(Work-Over) Commenced January 21, 1963 (Work-Over) Completed January 21, 1963

Correspondence regarding this well should be sent to: Name Mr. W. J. Barrett Address Wilson Tower Corpus Christi, Texas

Has an allowable been assigned to this well? Yes

SIZE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
7-5/8"	1609.65		None		1609.65		Guide Shoe & Float Collar
2-7/8"	5681.61		None		5681.61		Guide Shoe & Float Collar

Initial Production of Gas—Volume 56 MCF 24 hrs. Pressure 650 lbs. per square inch

Initial Production of Oil: Barrels 93.22

Initial Production of Distillate: Barrels -

Is this an OIL well? Yes, a GAS well? , or a Dry HOLE?

DESCRIPTION OF PROPERTY

NORTH

WEST

11,195' NW of the SE line of the lease (Bee-Refugio County Line) and approximately 3100' SE of the NW line of the lease; also being 1600' NW of Laura T. Barrow "B" #5 and 2350' NE of Laura T. Barrow "B" #2.

EAST

SOUTH

GENERAL REMARKS

Supplemental Form 2 filed to show an additional interval (5529 - 5533 feet) perforated with 2 shots per foot.

RECEIVED
JAN 31 1963
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
See original Form 2			

Method of shutting off water Casing & cement Is water completely shut off? Yes

Amount of water with oil Trace per cent

I, A. G. Ross being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

A. G. Ross

Representative of Company.

Subscribed and sworn to before me this 1st day of January, 1963

J. L. Galloway

Notary Public

Refugio County, Texas.

RECEIVED
FEB 1 - 1963
GAS DIVISION
RAILROAD COMMISSION OF TEXAS
AUSTIN, TEXAS

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

FIELD NAME: Laura Thomson (5600' No. 4) RRC DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: Humble Oil & Refining Company
(Use Names you will use on your E.B. Report in reporting Production.)

NAME OF LEASE: Laura T. Barrow "B" LEASE NUMBER: 02907 WELL NO. 6

ADDRESS: Corpus Christi, Texas SECTION - BLOCK -
(City and State)

P. O. BOX NO. Wilson Tower SURVEY M. De Los Santos (A-64) ELEVATION 113' DF

COUNTY IN WHICH WELL IS LOCATED Bee Unit Designation - Ac. in Unit -

7 Miles NE direction from Papalote, Texas nearest postoffice or town.

Date potential test commenced January 22, 19 63 Hour 8:00 A. M.

Date potential test completed January 23, 19 63 Hour 8:00 A. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? Yes Date Log filed January 10, 1963

RECEIVED
JAN 31 1963
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 650

Flowing pressure on tbg -

Length of test 24 Hrs. 0 Mins.

Size choke 1/8 Make choke TC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device?
Yes

Is this well being jetted? No

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered?

Data Necessary on Pumping Well

Make of Pumping unit

Length of stroke used

No. strokes per minute

Size working barrel

Length of test Hrs. Mins.

Data Necessary for Bottom-Hole Readings on Pumping Wells

Motor Size H.P. Pump Model

Pump Rating B.P.D. Total Fluid at Head

Setting Depth Tubing Size

Length of test Hrs. Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Oil producing during this test into Tank (Tank or Pit) Name of P.L. Connection The Permian Corp. (Trucks)

Date this well was last shot or acidized — If Shot: No. Quarts used — If Acidized: No. Gallons used

Barrels of oil produced from this well since shot or treatment to time this test was started
(Answer only if this Test was occasioned by shooting or treating this Well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test
(Applies to new and reworked Wells only.)

Percent water produced during this test Trace Total depth of this well 5710 Ft.

Is this a test of a new well for which no previous allowable has been assigned? No

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? No

What is the 24-hour potential at which it is carried currently on proration schedule? 82 bbls.

If this test is the result of a workover what was the nature of the job? Perforate additional interval 5529 - 5533 feet

Hour ~~work~~ workover completed 1:00 P. M. Date ~~work~~ workover completed January 21, 1963.

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
27290	1000	64.84	2	3-3/4	3	9	1	5/8	93.22		93.22

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24 hours) 93.22 (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS 602 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 37.0

(OVER)

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of Humble Oil & Refining Company

Date "Drilling, Plug Back or Deepening Permit" was issued December 14, 1962

Is Location "REGULAR," or was "SPECIAL PERMIT" required? Regular

If special permit was secured what is permit number?

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 4

Location of well, relative to lease boundaries of lease on which this well is located *Below feet from

line and feet from line of the lease

Size of surface casing: 7-5/8" Number feet of surface casing set 1609.65

Size of oil string 2-7/8" Number of feet of oil string run 5681.61

Type of tubing head McEvoy Type of Bradenhead McEvoy

Top of pay 5530 Ft. Total Depth 5710 Ft. Size tubing run -

Perforated from 5529 to 5533 No. Shots 12 No. ft. tubing run -

Kind of fuel used to drill this well Butane Amt. of fuel used -

Where fuel was secured Furnished by contractor

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

Cleve Stine
Representative of Company making test

Representative of Offset Operator for None Offset Operator

Clarence R. Wright
Pipe Line Gauger for The Permian Corporation Pipe Line Company

Representative of the Railroad Commission

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

A. G. Ross A. G. Ross for Humble Oil & Refining Company
Representative of Company making test Company making test

SWORN TO AND SUBSCRIBED before me this the 29th day of January, 1963

(Notary Seal) J. L. GALLOWAY J L Galloway

Notary Public in and for Refugio County, Texas

REMARKS: *LOCATION: 11,195' NW of The SE line of the lease (Bee-Refugio County Line) and approximately 3100' SE of the NW line of the lease; also being 1600' NW of Laura T. Barrow "B" #5 and 2350' NE of Laura T. Barrow "B" #2.

RECEIVED FEB 1 - 1963

MAP ID #94

API# 42-025-02741
OIL WELL
PLUGGED

2741 (94)

Plugging Record 00707

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id. Number: 02907

2 FIELD NAME (as per RRC Records): LAURA THOMSON (5600 No. 41)

3 LEASE NAME: LAURA T. BARRON "B"

5 Well Number: 27

6 OPERATOR: EXXON CORPORATION

10 County: BEE

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 5-31-66

8 SURFACE LOCATION: 2600 FEET FROM E OF N LINE, AND 3300 FEET FROM NE OF SW LINE

12 Date Drilling Commenced: 10-3-66

9 SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS (A-64)

13 Date Drilling Completed: 10-7-66

15 Type of Well (Oil, Gas, Dry)*: OIL

16 Type of Completion (Single, Dual, Etc.): SINGLE

17 Total Depth: 5585

14 Date Well Plugged: 8-16-73

18 FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19 Manner of Placement

PLUG #1	5 SACKS	TOP	5355	BOTTOM	5505	TYPE	CLASS H
PLUG #2	15 SACKS	TOP	44	BOTTOM	584	TYPE	CLASS H
PLUG #3	SACKS	TOP		BOTTOM		TYPE	
PLUG #4	SACKS	TOP		BOTTOM		TYPE	

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21 How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23 Depth of Deepest Fresh Water: 1200 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25 If NO, Explain:

26 Name and Address of Party Plugging Well: CULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
7 5/8"	522.64		518.64	
2 7/8"	5571.32		5567.32	

7 5/8" & 2 7/8" CASING CEMENTED TO SURFACE.

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS & COMPANY, BOX 1490, ALICE, TEXAS 78332

30 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle — GRADY COYLE — PRORATION SPECIALIST — 8-31-73

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD

RECEIVED R.R.C. OF TEXAS
SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS CASING CUT OFF 4' BELOW GROUND LEVEL AND WELL CAPPED.

0 0 0 0 7 3 0 9 3 0

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson 15600 No. 41	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or L. D. Number(s) Laura Barron 'B' 02907	*6. Well Number 3-24
*7. Location (Section, Block, and Survey) M. de Los Santos (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/16/73	8/16/73				
*20. Size of Hole or Pipe to which Plug Placed (inches)	2-7/8"	2-7/8"				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5505'	584'				
22. Sacks of Cement Used (each plug)	5	15				
23. Slurry Volume Pumped (cu. ft.)	5.9	17.7				
24. Calculated Top of Plug (ft.)	5355'	44'				
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED R.R.C. OF TEXAS SEP 4 1973 O.S. SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

D-02907

26. Remarks:
Circ well w 9.5# mud. Plugged well.
Cut off 4' below grd level. Capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J W Culberson Jr
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr. Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 22, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-31-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

80286

011 142

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test For Date of Receipt in District Office
1-1958

FIELD NAME: Laura Thomson (Tom [illegible] cond) RRC DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: Humble Oil & Refining Company
(Use Names you will use on your E.B. Report in reporting Production.)

NAME OF LEASE: Laura T. Barrow "B" LEASE NUMBER: 02907 WELL NO. 24

ADDRESS: Corpus Christi, Texas (City and State) SECTION - BLOCK -

P. O. BOX NO. Wilson Tower SURVEY M. de Los Santos (A-64) ELEVATION 115' D.F.

COUNTY IN WHICH WELL IS LOCATED Bee Unit Designation - Ac. in Unit -

6.1 Miles north direction from Papalotte, Texas nearest postoffice or town.

Date potential test commenced 10-13, 19 66 Hour 9:00 A. M.

Date potential test completed 10-14, 19 66 Hour 9:00 A. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name? -

Has the Log of this well been filed with Deputy Supervisor? Yes Date Log filed with this report

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 700

Flowing pressure on tbg --

Length of test 24 Hrs. - Mins.

Size choke .1280 Make choke TC

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? Yes

Is this well being jetted? No

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? -

Data Necessary on Pumping Well

Make of Pumping unit

Length of stroke used

No. strokes per minute

Size working barrel

Length of test Hrs. Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size H.P. Pump Model

Pump Rating B.P.D. Total Fluid at Head

Setting Depth Tubing Size

Length of test Hrs. Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Oil producing during this test into Tank (Tank or Pit) Name of P.L. Connection Humble Pipe Line Company

Date this well was last shot or acidized If Shot No. Quarts used If Acidized No. Gallons used

Barrels of oil produced from this well since shot or treatment to time this test was started
(Answer only if this Test was occasioned by shooting or treating this Well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test 200
(Applies to new and reworked Wells only.)

Percent water produced during this test Trace Total depth of this well Ft.

Is this a test of a new well for which no previous allowable has been assigned? Yes

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? No

What is the 24-hour potential at which it is carried currently on proration schedule? -

If this test is the result of a workover what was the nature of the job? -

Hour well completed 10:00 A. M. Date well completed 10-12, 19 66.

Railroad Commission of Texas
OIL & GAS DIVISION

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
FLOCO	Meter	Final Reading			34972.0						
		Initial Reading			34853.3						
					118.7				118.7		118.7

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24-hours) 118.7 (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS 598 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 36.2

(OVER)

Nu. #24 @ 10x eff 10/18 + 10x + 20 cmt

Fld. #03948 Ref. #02907

67

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of Humble Oil & Refining Company

Date "Drilling, Plug Back or Deepening Permit" was issued 8-31-60

Is Location "REGULAR," or was "SPECIAL PERMIT" required? Special

If special permit was secured what is permit number? 60005

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 13

Location of well, relative to lease boundaries of lease on which this well is located: *Below feet from ____ line and ____ feet from ____ line of the ____ lease

Size of surface casing 7-5/8" Number feet of surface casing set 522.64

Size of oil string 2-7/8" Number of feet of oil string run 5571.32

Type of tubing head McEvoy Type of Bradenhead McEvoy

Top of pay 5497 Ft. Total Depth 5585 Ft. Size tubing run --

Perforated from 5505 to 5507 No. Shots 5 No. ft. tubing run --

Kind of fuel used to drill this well Natural Gas Amt. of fuel used --

Where fuel was secured Lease

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

C. J. Stine
Representative of Company making test

Representative of Offset Operator for NOT AVAILABLE Offset Operator

Pipe Line Gauger for NOT AVAILABLE Pipe Line Company

Representative of the Railroad Commission ____

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

R. H. Bomar
Representative of Company making test R. H. Bomar for Humble Oil & Refining Company Company making test

SWORN TO AND SUBSCRIBED before me this the 22nd day of October, 19 60

(Notary Seal)

Notary Public in and for ____ County, Texas

REMARKS: *Location: 530' NW of Well #3; 1200' NE of Well #14; 1030' SW of #17, 2000' SE of W line of the lease.

0 1 1 0 1 4 3

DOWELL DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

CEMENTING CERTIFICATE

L.T.Parrow # B-24 Bee October 4, 1966 66

Humble Oil & Refining Company Route One, Box 247

Refugio Texas 78377 11-03-3103

CASING CEMENTING

7-5/8" 534'

9-7/8" 260 Cu/Ft Slurry Mixed @ 13.1# per gal-Cement Circulated

140 Class "A" + 8% gel, + 2% Ca, Cl.

PLUG TO ABANDON

RECEIVED

Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Roy D. Bertram

4th. October 1966

Ted Haynes- Ted Haynes Victoria Texas

FED H 6845 ESE H 02907

01 0144

DOWELL DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

511 MELROSE BUILDING
HOUSTON 2, TEXAS

CEMENTING AFFIDAVIT

STATE OF TEXAS

COUNTY OF Victoria

BEFCRE ME, a Notary Public in and for Victoria County, Texas, on this day personally appeared E. J. Cockrell of DOWELL, Division of The Dow Chemical Company, who, being by me duly sworn, deposes and says:

THAT on October 10, 1966, DOWELL, Division of The Dow Chemical Company cemented 5582 (length) feet of 1-String of 2-7/8" (size) casing in 6-3/4"-Hole L. T. Barrow (name of well) WELL NO. # B-24 near Woodsboro, and in Bee County, Texas, with 2462 cubic feet. Cement Was (was ~~not~~ circulated) circulated to surface.

By statement of the operator E. E. Boyd

The above work was done for Humble Oil & Refining Company (Name of Operator)

Route One, Box 247 (Address) Refugio (City), Texas 78377 (State)

RECEIVED

Railroad Commission of Texas

BY E. J. Cockrell

Subscribed and sworn to before me this 11th. day of October, 1966.

Ted Haynes

NOTARY PUBLIC IN AND FOR Victoria County, Texas.

(SEAL)

011 0145

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form I-1
11-2-62

INCLINATION REPORT

ONE COPY MUST BE FILED WITH EACH COMPLETION REPORT

Field Name Laura Thomson County Bee RRC Dist. No. 2

Operator Humble Oil & Refining Company Address Wilson Tower City Corpus Christi, Texas

Lease Name & No. L. T. Barrow 'B' Well No. 24 Survey M. de Los Santos

RECORD OF INCLINATION

Depth (feet)	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
497	1/2	4.32	4.32
1015	3/4	6.79	11.11
1512	1/2	4.32	15.43
2006	1	8.65	24.08
2505	1/4	2.20	26.28
3033	1/2	4.59	30.87
3972	3/4	12.30	43.17
4532	1-1/4	12.21	55.38
5281	3/4	9.81	65.19
5562	1/2	2.44	67.63

Total Displacement 67.63

Was survey run in Tubing _____ Casing _____ Open Hole X
Distance to nearest lease line 2600 feet
Distance to lease lines as prescribed by field rules 467 feet

Certification of personal knowledge Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.

Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO

Mike Dillingham
Signature

Dillingham Drilling Co
Company

Operator Affidavit:

(Note: Party making affidavit must strike out inapplicable phrases, and must file explanatory statement when applicable.)

Before me, the undersigned authority, on this day, personally appeared R. H. Bomar, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states ~~that he is the operator of the well identified in this instrument~~ (that he is acting at the direction and on behalf of the operator of the well identified in this instrument), and that such well was not intentionally deviated from the vertical whatsoever. ~~(and that such well was deviated at random for the reason described in the attached statement).~~

R H Bomar Unit Head
Signature and Title of Affiant

Sworn and Subscribed to before me, this the _____ day of October, 19 66.

Notary Public in and for _____
County, Texas.

RRC Use Only:

Approved By: Diana Sanders
Title: Clerical Supervisor
Date: 10-28-66

FED #0845 LSF-H 02907

011 01146

Application to Drill, Deepen or Plug Back.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

Rule 37

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK Drill

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE.
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable) 011 01147

CRS

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of the lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 2600 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 550 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date August 15, 1966

Name of company or operator

Name HUMBLE OIL & REFINING COMPANY

Address Wilson Tower

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Laura T. Barrow "B"

Number of Acres 6127.5 Well No. 24

Number of wells on lease 14

Elevation _____ (Ft. above sea level) Section No. _____ Block No. _____

Survey Miguel De Los Santos (A-64)

Zone or Reservoir 5600' #4

To be Located in Laura Thomson Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) _____

Bee County

Approx. 7.8 Miles NE direction from Papalote, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling As soon as permitted

Depth to which you propose to drill 5900 feet.

Date work will start deepening _____

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name _____

Address _____

RECEIVED
AUG 16 1966
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Loc: 550' NW of well No. 13; 1500' NE of No. 14; 1030' SW of No. 17; 2600' SE of NW line of the lease.

8848 — 02907

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

DK

DRAW SKETCH IN SPACE BELOW OR FILE CERTIFIED LEASE PLAT
(Be sure that all required locations, footages, distances, and scales are given in clearly legible print. Block printing preferable.)

NORTH

WEST

EAST

SOUTH

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Board of Water Engineers, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

Scale of Plat 1" = 1000'

I, Grady Coyle, being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the above are true and correct.

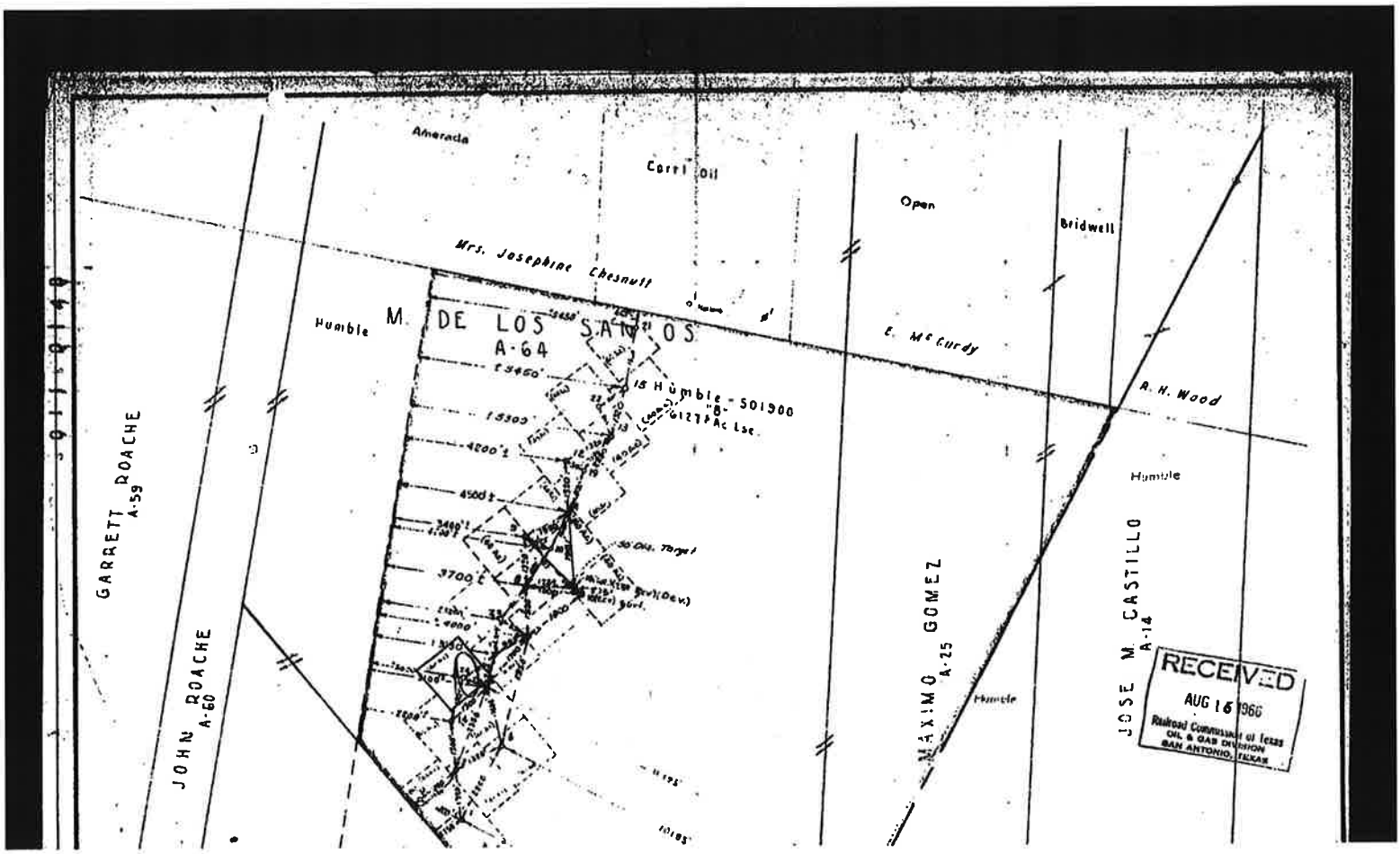
Name Grady Coyle Title Proration Specialist

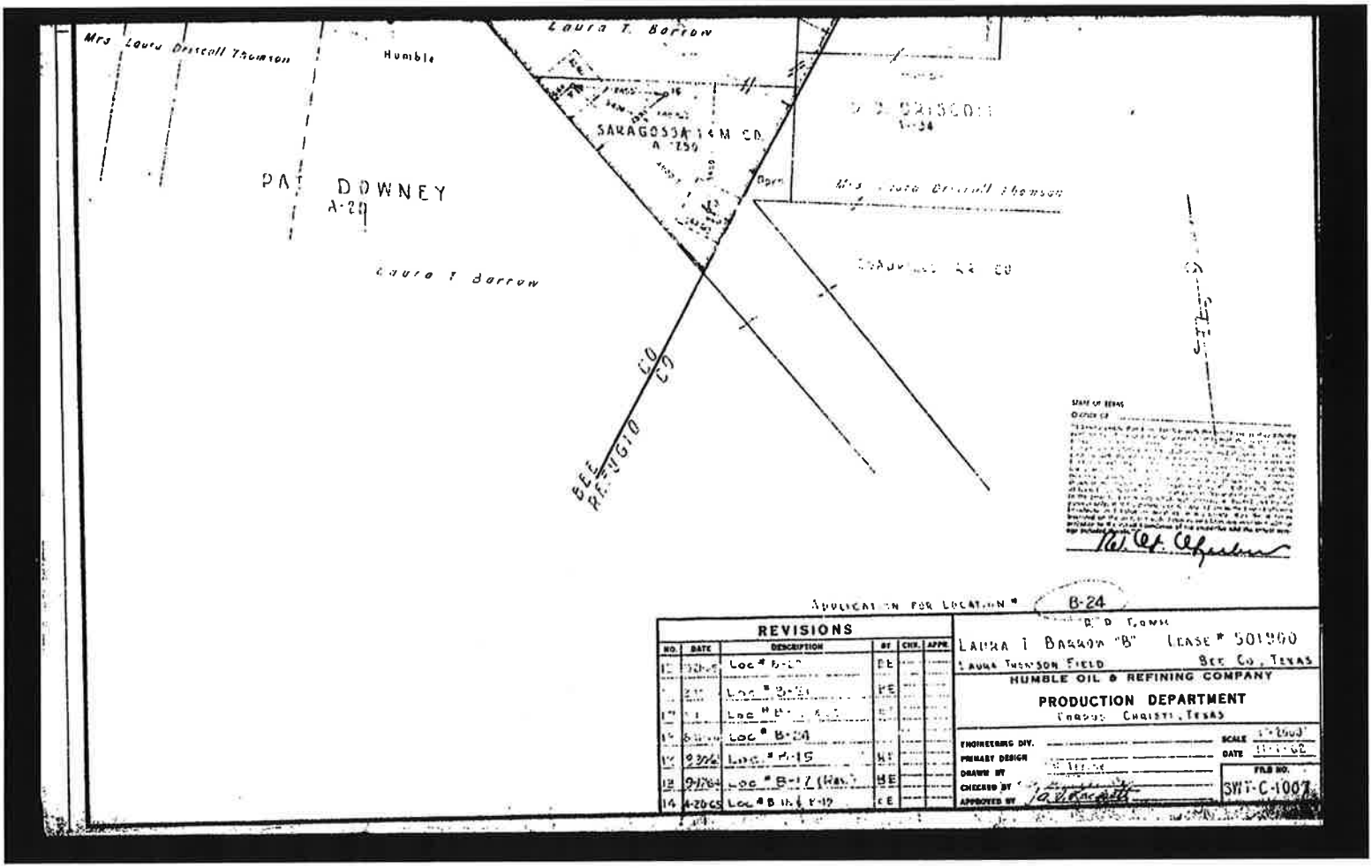
Subscribed and sworn to before me this 15 day of August, 19 66

Notary Public _____ County, Texas

Correspondence regarding this well should be addressed to:

Name Mr. W. J. Barrett Address Wilson Tower, Corpus Christi, Texas 78401


Amerada
Carri Oil
Open
Bridwell
Mrs. Josephine Chesnutt
Humble
M. DE LOS SANTOS
A-64
E. McCurdy
A. H. Wood
Humble
GARRETT ROACHE
A-59
JOHN ROACHE
A-60
MAXIMO GOMEZ
A-25
JOSE M. CASTILLO
A-14
Humble
Humble
RECEIVED
AUG 16 1966
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS


Mrs Laura Driscoll Thomson
Humble
Laura T. Barrow
SARAGOSSA 14 M CO.
PAT DOWNEY
A-20
Laura T Barrow
BEE CO
REFUGIO CO
STATE OF TEXAS
APPLICATION FOR LOCATION # B-24
REVISIONS
NO. DATE DESCRIPTION BY CHK. APPR.
Loc # B-24
Loc # B-15
Loc # B-17 (Rev.)
Loc # B-18 & B-19
LAURA T BARROW "B" LEASE # 501900
LAURA THOMSON FIELD BEE CO., TEXAS
HUMBLE OIL & REFINING COMPANY
PRODUCTION DEPARTMENT
CORPUS CHRISTI, TEXAS
ENGINEERING DIV.
PRIMARY DESIGN
DRAWN BY
CHECKED BY
APPROVED BY
SCALE
DATE
FILE NO.
SWT-C-1007

01 9149

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

File No. _____ Form 2 Well Record

Operator Humble Oil & Refining Company Address Wilson Tower, Corpus Christi, Texas

County Bee Survey M. De Los Santos (A-64) Block No. -- Sec. No. --

Lease Name Laura T. Barrow "B" Well No. 24 Elevation 115' D.F. (Above Sea Level)

Name of Field in which well is located Laura Thomson (5600' No. 4)

Form 1 (Notice of Intention to Drill) Was Filed in Name of Humble Oil & Refining Company

Is this a NEW WELL? Yes DEEPENING? _____ or a WORK-OVER? _____

If this is a NEW WELL, show when drilling commenced and when drilling was completed.

If this is a PLUG-BACK or DEEPENING operation to a different reservoir, show when work-over commenced and when completed.

(Drilling) Commenced October 3, 19 66 (Drilling) Completed October 12, 19 66

Correspondence regarding this well should be sent to: Name Mr. W. J. Barrett Address Wilson Tower Corpus Christi, Texas 78401

Has an allowable been assigned to this well? No

SIZE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
7-5/8"	522	64	None		522	64	Guide Shoe & Float Valve
2-7/8"	5571	32	None		5571	32	Guide Shoe & Landing Collar

Initial Production of Gas—Volume 71 MCF 24 hrs. Pressure 700 lbs. per square inch

Initial Production of Oil: Barrels 113.70

Initial Production of Distillate: Barrels --

Is this an OIL well? Yes, a GAS well? _____, or a Dry HOLE? _____

DESCRIPTION OF PROPERTY

NORTH

550' NW of Well #3; 1200' NE of #14; 1980' SW of #17; 2600' SE of NW line of the lease.

WEST

EAST

SOUTH

GENERAL REMARKS

Drilled by Dillingham Drilling Co. Rig #1

RECEIVED

OCT 0 8 1966

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

08480 — 02767

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Surface Sand & Gravel	0	1500	
Catahoula	1500	3900	
Frio	3900	5535	
Total Depth		5535	

Method of shutting off water Casing & Cement . Is water completely shut off? Yes

Amount of water with oil Trace per cent

I, R. H. Doman, being first duly sworn on oath state that I have knowledge of the facts and matter herein stated and that the same are true and correct.

R. H. Doman
Representative of Company.

Subscribed and sworn to before me this 27th day of October, 1966.

Notary Public
County, Texas.

MAP ID #95

API# 42-025-02481
OIL WELL
PLUGGED

02481 (95)

? 0 0 0 0 7 [redacted] 0 0 9 2 3 To Correct Filed NAME AND I.D. No.

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION See Reverse

FORM W-3
Rev. 10/78

API NO. (If available)

1. RRC District: 2

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. Lease or I.D. Number: 02907

2. FIELD NAME (as per RRC Records): LAURA THOMSON (5100 #4 SAND)

3. Lease Name: LAURA T. BARROW "B"

7. Well Number: 14

6. OPERATOR: EXXON CORPORATION

6a. Original Form W-1 Filed in Name of:

10. County: BEE

ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78476

6b. If Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 8-23-63

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 2200 Feet From NW Line and 2200 Feet From SW Line of the L. T. BARROW "B" Lease

12. Permit Number

9a. SECTION, BLOCK, AND SURVEY: N. DE LOS SANTOS

9b. Distance and Direction From Nearest Town in this County: 8 MILES NE OF PAPALOTTE

13. Date Drilling Commenced: 8-24-63

16. Type Well (Oil, Gas, Dry): OIL

Total Depth: 5610

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #

Oil - O Gas - G

WELL #

14. Date Drilling Completed: 9-3-63

18. If Gas, Amt of Cond. on Hand at time of Plugging

15. Date Well Plugged: 8-27-79

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	8-24-79	8-27-79	8-27-79					
20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8	2-7/8	2-7/8					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4080	1570	565					
*22. Sacks of Cement Used (each plug)	35	25	50					
*23. Slurry Volume Pumped (cu. ft.)	40.9	29.25	58.5					
*24. Calculated Top of Plug (ft.)	2819	1490	15					
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.								
*27. Type Cement								

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
7"		504.71	504.71	
2-7/8		5573.21	5573.21	

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☐ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Name of Cementing Company

RECEIVED R.R.C. OF TEXAS SEP 25 1979 O. G. SAN ANTONIO, TX.

CERTIFICATE:

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

G. F. Presson
REPRESENTATIVE OF COMPANY

G. F. PRESSON
PRORATION SPECIALIST
TITLE

SEP 19 1979
DATE

Phone 512 - 884-4571
A/C NUMBER

RECEIVED R.R.C. OF TEXAS SEP 21 1979 O. G. SAN ANTONIO, TEX.

SIGNATURE REPRESENTATIVE OF RAILROAD COMMISSION

DR 66

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — [X] Yes [ ] No

32. How was Mud Applied? DUMPED

33. Mud Weight 9.5 LBS/GAL

34. Total Depth 5610

Depth of Deepest Fresh Water 1600

Other Fresh Water Zones by T.D.W.R. — TOP / BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: THE WESTERN COMPANY, P.O. BOX 470 VICTORIA, TX 77901

Date RRC District Office notified of plugging: 6-1-79

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-5 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS ORIGINALLY FILED AS LAURA THOMSON (5-200)
LD No. 58175

MAP ID #96

API# 42-025-33107
GAS WELL
PLUGGED

(DOES NOT PENATRATE CONFINING/INJECTION ZONE)

(96)

RECEIVED
CENTRAL RECORDS
JUL 22 2011
AUSTIN, TEXAS

RECEIVED
RRC OF TEXAS
MAR 30 2011
OIL & GAS DIVISION
SAN ANTONIO, TX

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

API No. (if available) 42- 025-33107	1. RRC District 02
FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING	4. RRC Lease or ID Number 184502

2. FIELD NAME (as per RRC records) Burkes Ridge (1600)	3. Lease Name Thompson-Barrow Corp. "C"	5. Well Number 23
6. OPERATOR C & E Operating, Inc.	6a. Original Form W-1 filed in name of:	10. County Bee
7. ADDRESS 345 Commerce Green Blvd. Sugar Land, Texas 77498	6b. Any subsequent W-1's filed in name of:	11. Date Drilling Permit Issued 04/02/01
8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 2747.7 feet from north line and 2145 feet from west line of the Thomson-Barrow Corp. C lease		12. Permit Number 507059
9a. SECTION, BLOCK and SURVEY Miguel De Los Santos, A-64	9b. Distance and direction from nearest town in this county 12.0 miles west from Woodsboro	13. Date Drilling Commenced 04/12/01

16. Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no.'s	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14. Date Drilling Completed
gas	2000					~~05/01/01~~ 04-17-01
18. If gas, amt. of cond. on hand at time of plugging						15. Date Well Plugged 12/01/10

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date 2010	12/1							
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8							
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1512							
*22. Sacks of Cement Used (each plug)	45							
*23. Slurry Volume Pumped (cu. ft.)	53.1							
*24. Calculated Top of Plug (ft.)	4							
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	15.6							
*27. Type Cement	H							

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.#/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	500	496	12¼
2 7/8	6.5	1686	1684	7 7/8

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 1512	TO 1516	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Signature of Cementer or Authorized Representative

York Cement & Acid
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Boening
REPRESENTATIVE OF COMPANY

Office Manager
TITLE

03/10/11
DATE

PHONE 361 741-3600
A/C NUMBER

MAPPING

Cdiaz 4/6/11
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

Wm

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? ☒ Yes ☐ No	32. How was mud applied? Circulate	33. Mud Weight 9.8 LBS/GAL

34. Total Depth 2000 Depth of Deepest Fresh Water 1000	Other Fresh Water Zones by T.D.W.R. TOP 0 BOTTOM 775	35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☒ Yes ☐ No	36. If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well
York Cmt & Acid 6511 FM 1464 PMB6 Richmond, TX 77407

Date RRC District Office notified of plugging 11/30/10

38. Name(s) and address(es) of surface owners of well site
Thomson-Barrow Corp.
5847 San Felipe
Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *
File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

Type or Print only
483-047

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42-025 33107

7 RRC District No. 2

8. RRC Gas ID No 184502

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1 FIELD NAME (as per RCC Records or Wildcat) Burkes Ridge (1600)	2 LEASE NAME THOMSON-BARROW CORP C
9. Well No 23	
3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) C & E OPERATING, INC.	RCC Operator No 120079
10 County of well site Bee	
4 ADDRESS 345 Commerce Green Blvd., Sugar Land, Texas 77478	11 Purpose of filing: Initial Potential [X]
5 Location (Section, Block, and Survey) Miguel De Los Santos Grant A-64	5b Distance and direction to nearest town in this county 12.0 miles west from Woodsboro
Retest [ ]	
6 If operator has changed within last 60 days, name former operator	12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil-O Gas-G / Well #
Reclass [ ]	
13 Pipe Line Connection KOCH Gateway	
Well record only (Explain in remarks) [ ]	
14. Completion or recompletion date 5/1/01	15 Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No
16 Type of Electric or other Log Run Induction	

RECEIVED
R.R.C. OF TEXAS
MAY 24 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Section I — GAS MEASUREMENT DATA

Date of Test: 5/1/01

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas production during test: 35 MCF

Run Size	Line Size	Orif or Choke Size	24 hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		10/64	0.553	500		80.0	0.9813	1.0305	1.0340	289
2		9/64	0.444	520		80.0	0.9813	1.0305	1.0354	242
3		8/64	0.347	530		80.0	0.9813	1.0305	1.0361	193
4		6/64	0.203	550		80.0	0.9813	1.0305	1.0375	117

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg Shut-in Temp	Bottom Hole Temp
0.565	Deg API	CF/Bbl	G_{mix}= 0.565	90 °F	105 °F @ 1514 (Depth)

$D_{eff}^{8/3}$ = 10.802 $\sqrt{T_f}$ = $\sqrt{557.500}$ = 23.611 $\sqrt{GL}$ = $\sqrt{855.410}$ = 29.247

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 511.486 C = 0.057

RECEIVED
CENTRAL RECORDS
JAN 03 2002
AUSTIN, TEXAS

Run No	Time of Run Min	Choke Size	Wellhead Press P_W PSIA	Wellhead Flow Temp °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_W/P_1
Shut-In			570	75.0	325				
1	60	10/64	500	90.0	250	16.5	0.3	500.3	0.9995
2	60	9/64	520	90.0	270	13.8	0.2	520.2	0.9996
3	60	8/64	530	90.0	281	11.0	0.1	530.1	0.9998
4	60	6/64	550	90.0	303	6.7		550.0	0.9999

Run No	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (Thousands)	$P_f^2 - P_s^2$ (Thousands)	Angle of Slope
Shut-In		0.0292	1.0776	1.0319	588	345.7		θ 52.30
1	0.9997	0.0288	1.0692	1.0312	516	266.1	79.6	n 0.7730
2	0.9998	0.0288	1.0705	1.0313	536	287.8	58.0	Absolute Open Flow
3	0.9999	0.0288	1.0711	1.0313	547	298.9	46.9	922 MCF/DAY
4	1.0000	0.0288	1.0724	1.0313	567	321.8	23.9	

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec.91 143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Heather Thomas — Target Well Services, Inc.

Signature: Well Tester — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L. Boemi — President — 5/23/01 — Tel (361)741-3600

Signature Operator's representative — Title — Date — A/C Number

MAPPING

VALID PERMIT

JUN 08 2001

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE: 4/2/01 — PERMIT NO.: 507059
Rule 37 Exception — CASE NO.:
Water Injection Permit — PERMIT NO:
Salt Water Disposal Permit — PERMIT NO:
Other — PERMIT NO.:

19. Notice of Intention to Drill this well was filed in Name of: C&E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 16,692.72

22. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced: 4/12/01 — Completed: 4/17/01

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to the nearest lease boundaries of lease on which this well is located: 2747.7 Feet From north Line and 2145.0 Feet From west Line of the Thomson-Barrow Corp. C Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 112.9'

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay	28. Total Depth	29. P.B. Depth	30. Surface Casing Determined by.	Field Rules [ ]	Recommendation of T.D.W.R. Railroad Commission (Special) [X]	Dt. of Letter
1512	2000'	1646'				Dt. of Letter 4/12/01

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-O Gas-G	Well #

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: Hazelett Drilling, Inc.

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT#/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	23	500	--	275 sx H	12¼	surface	324.5
2 7/8	6.5	1686	--	475 sx H	7 7/8	surface	890

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
TUBINGLESS		

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	1512	To	1516
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
1512 - 16	Perforate 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Miocene	1250		

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-1
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Burkes Ridge (1600)	2. LEASE NAME: Thomson-Barrow Corp. C
3. OPERATOR: C&E Operating, Inc.	6. RRC District: 02
4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, Texas 77478	7. RRC Lease Number (Oil completions only):
5. LOCATION (Section, Block, and Survey): Miguel De Los Santos Grant A-64	8. Well Number: 23
	9. RRC Identification Number (Gas completions only):
	10. County: Bee

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15 Course Displacement (feet)	16. Accumulative Displacement (feet)
500	500	0	0	0	0
1000	500	1/4	.43	2.15	2.15
1500	500	1/4	.43	2.15	4.30
2000	500	1/4	.43	2.15	6.45

RECEIVED
R.R.C. OF TEXAS
MAY 24 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 2,000 feet = 6.45 feet.

*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 2145.0 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

George Hazelett
Signature of Authorized Representative

George Hazelett
Name of Person and Title (type or print)

Hazelett Drilling, Inc.
Name of Company

Telephone: 512 (Area Code) 398-6682

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Terry L. Boening
Signature of Authorized Representative

Terry L. Boening, President
Name of Person and Title (type or print)

C&E Operating, Inc.
Operator

Telephone: 361 (Area Code) 741-3600

Railroad Commission Use Only:

Approved By: Helmuth Schneider Title: Geologist Date: 5/24/01

* Designates items certified by company that conducted the inclination surveys.

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3. RRC District No	4 County of Well Site
C&E Operating, Inc.	120079	02	Bee

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7 Drilling Permit No.
Burkes Ridge (1600)	42-025 33107	507059

8 Lease Name	9. Rule 37 Case No	10. Oil Lease/Gas ID No	11 Well No
Thomson-Barrow Corp. C			23

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		4/13/01					
13 •Drilled hole size		12¼					
•Est % wash or hole enlargement		30	T.N.R.C.C. LETTER DATED 3-28-01				
14. Size of casing (in O.D.)		8 5/8	Depth 1100, 875 ft.				
15. Top of liner (ft.)			13(A) Exception Dated 4-12-01				
16. Setting depth (ft.)		500	Surface Casing 500 ft.				
17. Number of centralizers used		5	D.V. @ ft.				
18 Hrs. waiting on cement before drill-out		12					
1st Slurry	19. API cement used. No of sacks ▶	185					
	Class ▶	H					
	Additives ▶	—					
2nd Slurry	No. of sacks ▶	90					
	Class ▶	H					
	Additives ▶	2% CaCl2					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	218.3					
	Height (ft.) ▶	451.2					
2nd	Volume (cu. ft.) ▶	106.20					
	Height (ft.) ▶	259					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu ft.) ▶	324.5					
	Height (ft.) ▶	710					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		YES					

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R.R.C. OF TEXAS
MAY 24 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

John D. McCain - President | Roywell Services | John D. McCain

Name and title of cementer's representative | Cementing Company | Signature

P.O. Box 1329 | Bellaire, | Tx | 77402-1329 | 713-661-4747 | 5/3/01

Address | City, | State, | Zip Code | Tel.: Area Code Number | Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening | President | Terry L. Boening

Typed or printed name of operator's representative | Title | Signature

345 Commerce Green Blvd., Sugar Land, Texas 77478 | (361)741-3600 | 5/23/01

Address | City, | State, | Zip Code | Tel.: Area Code Number | Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator Fill in other items.

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No.	7 Drilling Permit No.
Burkes Ridge (1600)	42-025 33107	507059

8 Lease Name	9 Rule 37 Case No.	10 Oil Lease/Gas ID No	11 Well No
Thompson-Barrow Corp. C			23

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date				04/18/01			
13 •Drilled hole size				7 7/8			
•Est % wash or hole enlargement				15			
14 Size of casing (in OD)				2 7/8			
15 Top of liner (ft)							
16 Setting depth (ft)				1686			
17 Number of centralizers used				9			
18 Hrs waiting on cement before drill-out				--			
1st Slurry	19 API cement used: No of sacks ▶			310			
	Class ▶			A			
	Additives ▶			Salt,Gel,RB,CelloFlake			
2nd Slurry	No of sacks ▶			165			
	Class ▶			H			
	Additives ▶			Salt,FL25,ASA301,SM			
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft.) ▶			691			
	Height (ft) ▶			Surface			
2nd	Volume (cu. ft.) ▶			199			
	Height (ft.) ▶			500			
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			890			
	Height (ft) ▶			1685			
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			

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R.R.C. OF TEXAS
MAY 24 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Terry Taylor, Service Supervisor — Name and title of cementer's representative
BJ SERVICES COMPANY — Cementing Company
Signature

411 Hartman Road, Victoria, TX 77905 — Address, City, State, Zip Code
361-575-6446 — Tel.: Area Code Number
04/18/01 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge This certification covers all well data

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Terry L. Boening — Signature

345 Commerce Green Blvd., Sugar Land, Texas 77478 — Address, City, State, Zip Code
(361)741-3600 — Tel.: Area Code Number
5/23/01 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

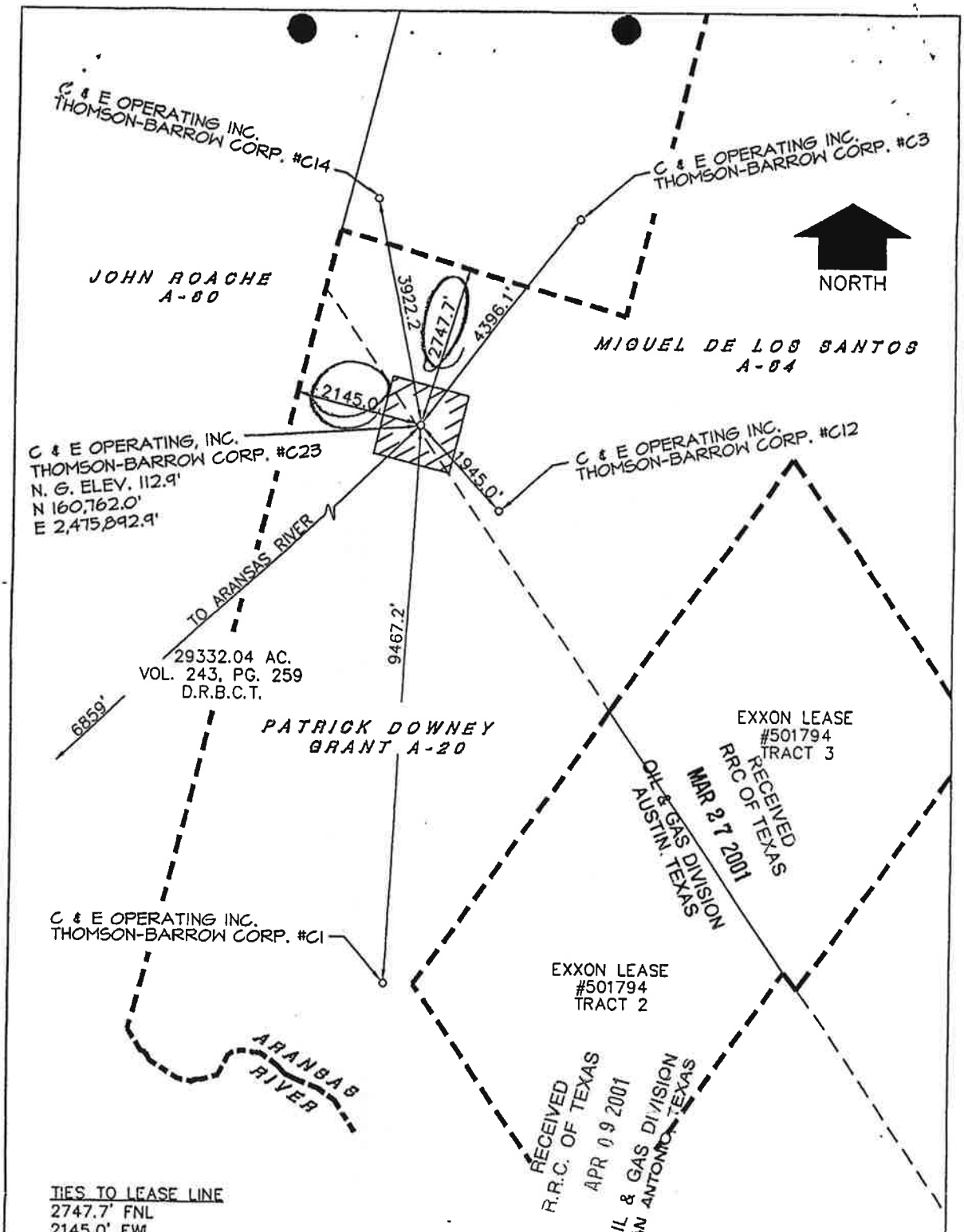
D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.



TIES TO LEASE LINE
2747.7' FNL
2145.0' FWL

TIES TO SURVEY LINES
68.7' FSWL
2145.0' FWL EXTENDED

DISTANCE FROM NEAREST TOWN
12 MILES WEST OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MARCH 21, 2001 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

3-23-01
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C23
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

DWG. No. :	0173-526
SCALE :	1" = 2000'
DATE :	3/22/01
DWN. BY :	IRR

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (361)289-1385

▶ Return each W-1 with plat and applicable fee Make a check or money order payable to the State Treasurer of Texas

▶ Address to
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P O Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EXPEDITE

Form W-1
Rev 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WIL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0 - 2000' - 8100, 2001' - 4000' - 8125
4001' - 9000' - 8150 9001' or deeper - 8200

Purpose of filing (mark appropriate boxes): [X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter [ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No 42-025-33107 ▶ Permit No. 507059 ▶ Rule 37 Case No

1. Operator's Name (exactly as shown on Form P-5, Organization Report)	3. RRC Operator No	4 RRC District No	5 County of Well Site
C&E Operating, Inc.	120079	02	Bee

2 Address (including city and zip code)	6. Lease Name (32 spaces maximum)	7 RRC Lease/ID No	8 Well No.	9 Total Depth
345 Commerce Green Blvd. Sugar Land, Texas 77478	Thomson-Barrow Corp. C		23	2500

10 Location
- Section _____ Block _____ Survey Miguel De Los Santos ~~Grant~~ Abstract No A- 64
- This well is to be located 12.0 miles in a west direction from Woodsboro which is the nearest town in the county of the well site

11. Distance from proposed location to nearest lease or unit line 2145.0 ft

12 Number of contiguous acres in lease, pooled unit, or unitized tract 16692.72 (OUTLINE ON PLAT)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion Attach additional Form W-1's as needed to list these zones One zone per line.	14 Completion depth	15 Spacing pattern (ft)	16 Density pattern (acres)	17 Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18 Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19 Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir (ft)	20 Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir OIL	GAS
Wildcat (Above 2500) 4001	2500	467/1200	40	40	No	NA	O/G	1	1
Burkes Ridge (1600) 13551600	1600	467/1200	40	40	No	NA	O/G	1	1

22. Perpendicular surface location from two nearest designated lines:
- Lease/Unit 2747.7' FNL & 2145.0' FWL
- Survey/Section 68.7' FSWL & 2145.0 ~~FWL (extended)~~ FWL/WL (ext.)

If a directional well, show also projected bottom-hole location
- Lease/Unit
- Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat) No [X]

24 Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25 Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks

26 Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37

Remarks
Please expedite $125 + $50 = $175

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening — Signature
Terry L. Boening, President — Name and title of operator's representative
3/26/01 — Date, mo day yr
(361)741-3600 — Tel Area Code Number

• RRC Use Only •

125 APP
50 EX

209228

507059

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RRC OF TEXAS
MAR 27 2001
OIL & GAS DIVISION
AUSTIN, TEXAS

025-33107

MAPPING

Terry

BAKER HUGHES

Baker Atlas

DUAL INDUCTION FOCUSED LOG
COMPENSATED DENSILOG SM
COMPENSATED NEUTRON LOG
GAMMA RAY LOG

FILE NO:	COMPANY	C & E OPERATING, INC.
	WELL	THOMPSON-BARROW C-23
API NO: 42-025-33107	FIELD	BURKES RIDGE
	COUNTY	BEE STATE TEXAS

Ver. 3.80

FIELD PRINT

LOCATION:
68.7' FSWL & 2145.0' FW' LY WL OF THE MIGUEL DE LOS SANTOS SURVEY
A-64

OTHER SERVICES
NONE

PERMANENT DATUM	GL	ELEVATION	112.9 FT
LOG MEASURED FROM	KB	6 FT	ABOVE P.D.
DRILL. MEAS. FROM	KB		

ELEVATIONS:
KB 118.9 FT
DF 117.9 FT
GL 112.9 FT

DATE		17-APR-2001			
RUN	TRIP	1	1		
SERVICE ORDER		351411			
DEPTH DRILLER		2000 FT			
DEPTH LOGGER		2009 FT			
BOTTOM LOGGED INTERVAL		2007 FT			
TOP LOGGED INTERVAL		515 FT			
CASING DRILLER		8.625 IN	@500 FT	@	
CASING LOGGER		515 FT			
BIT SIZE		7.875 IN			
TYPE OF FLUID IN HOLE		WATER BASED			
DENSITY	VISCOSITY	9.8 LB/G	38 S		
PH	FLUID LOSS	9.5	5.8 C3		
SOURCE OF SAMPLE		FLOWLINE			
RM AT MEAS. TEMP.		1.27 OHMM	@75 DEGF	@	
RMF AT MEAS. TEMP.		.95 OHMM	@75 DEGF	@	
RMC AT MEAS. TEMP.		1.59 OHMM	@75 DEGF	@	
SOURCE OF RMF	RMC	MEASURED	CALCULATED		
RM AT BHT		.89 OHMM	@109 DEGF	@	
TIME SINCE CIRCULATION		4 HOURS			
MAX. RECORDED TEMP.		109 DEGF			
EQUIP. NO.	LOCATION	HL-6541	ALICE		
RECORDED BY		T. CLARK			
WITNESSED BY		T. BOENING			

Return to Central Records

RECEIVED
RRC OF TEXAS
MAY 16 2002
O&G
AUSTIN TX

MAP ID #97

API# 42-025-30166
DRY HOLE

(97)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id. Number:

2. FIELD NAME (as per RRC Records): WILDCAT

3. LEASE NAME: LAURA D. THOMSON B

5. Well Number: 9

6. OPERATOR: EXXON CORPORATION

10 County: BEE

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 9-27-72

8 SURFACE LOCATION: 2800 FEET FROM W OF E LINE, AND 11800 FEET FROM S OF N LINE

12 Date Drilling Commenced: 10-10-72

9 SECTION, BLOCK, AND SURVEY: PATRICK DOWNEY (A-20)

13 Date Drilling Completed: 10-28-72

15. Type of Well (Oil, Gas, Dry)*: DRY

16 Type of Completion (Single, Dual, Etc.): SINGLE

17 Total Depth: 6000

14 Date Well Plugged: 12-15-72

18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING COMPANY

19 Manner of Placement

PLUG #1	50	SACKS	TOP	4600	BOTTOM	4823	TYPE CLASS H
PLUG #2	50	SACKS	TOP	1150	BOTTOM	1486	TYPE CLASS H
PLUG #3	7	SACKS	TOP	5	BOTTOM	75	TYPE CLASS H
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20 Was well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES X NO

21. How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23 Depth of Deepest Fresh Water: 1100 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO

25 If NO, Explain:

26. Name and Address of Party Plugging Well: FISH OIL WELL SERVICING COMPANY, P.O. BOX 1057, BEEVILLE, TEXAS 78102

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	650.04		645.04	
* 2 7/8"	5371.12		5366.12	

2 7/8" CASING CEMENTED TO SURFACE W/2030 SX.

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS & COMPANY, BOX 1490, ALICE, TEXAS 78332

29 Was Notice given before Plugging to each of the above and RRC District Office? YES X NO RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Cooke
REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST
TITLE

1-3-73
DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R. R. C. OF TEXAS
JAN 04 1973

*All Dry Holes, Fill in Reverse Side.

025 30166

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-60)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) WILDCAT	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA D. THOMSON 'B'	*6. Well Number 9
*7. Location (Section, Block, and Survey) PATRICK DOWNEY (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu. ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu. ft.)						
17. Calculated Annular Height of Cement Slurry Behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO.
19. Cementing Date	12-13-72	12-14-72	12-15-72			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8" csg	2 7/8" csg	2 7/8" csg			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4823	1486	75			
22. Sacks of Cement Used (each plug)	50	50	7			
23. Slurry Volume Pumped (cu. ft.)	59	59	8.26			
24. Calculated Top of Plug (ft.)	4600	1150	5			
*25. Measured Top of Plug (if tagged) (ft.)	See #26	Remarks				

RECEIVED
JAN 01 1973

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

— OVER —

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30166

26. Remarks: Bottom plug-223' left in casing. 43 sks squeezed out into formation. Plug #2-330' left in casing. 40 sks squeezed out. Surface annulus was

*27. Remarks: already filled w/ cement at time of drilling well.

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Howard E. Fish
Signature of Cementer or Authorized Representative

Howard E. Fish, President
Name of Person and Title (type or print)

Fish Oil Well Servicing Company
Cementing Company

P. O. Box 1057
Street Address or P.O. Box

Beeville, Texas 78102
City, State Zip Code

Telephone 512 358-2505
Area Code

12-22-72
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER
*Street Address or P. O. Box

CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

1-3-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3,
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-27-68)

CEMENTING REPORT

(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat): WILDCAT	*2. RRC District: V
*3. Operator: EXXON CORPORATION	*4. County: BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): LAURA D. THOMSON 'B'	*6. Well Number: 9
*7. Location (Section, Block, and Survey): PATRICK DONNEY (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	10-11-72					
*9. (a) Size of Drill Bit (inches)	11					
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)	8 5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	650.04					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	*Remarks					
(b) In Second Slurry	*Remarks					
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	300					
(b) In Second Slurry	100					
(c) In Third Slurry						
(d) Total Sacks of Cement Used	400					
15. Slurry Volume per Sack of Cement (cu. ft./sack): (a) In First (Lead) or Only Slurry	2.20					
(b) In Second Slurry	1.18					
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	660					
(b) In Second Slurry	118					
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu. ft.)	778					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	650					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

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R.R.C. DIST. V
JAN 04 1973

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

OVER

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30166

26. Remarks: HUMBLE OIL & REFINING COMPANY
L. D. THOMPSON RANCH #B-9 -- Bee Cnty.
13. (a) Class 'A', + 12% Gel.
(b) Class 'A', + 3% CaCl2.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

C. O. Moody
Signature of Cementer or Authorized Representative

C. O. Moody -- Service Supervisor
Name of Person and Title (type or print)

THE WESTERN COMPANY
Cementing Company

P. O. Box 1186
Street Address or P.O. Box

Robstown, Texas 78380
City, State Zip Code

Telephone 512 387-1523
Area Code

October 11, 1972
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Brady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER
*Street Address or P. O. Box

CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

1-3-73
*Date

– INSTRUCTIONS –

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 8-27-69)

CEMENTING REPORT

(To be filed with each Form C-1, W-2, W-3, or if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat): WILD CAT	*2. RRC District: 2
*3. Operator: EXXON CORPORATION	*4. County: BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): LAURA D. THOMSON 'B'	*6. Well Number: 9
*7. Location (Section, Block, and Survey): PATRICK DOWNEY (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date			10-19-72			
*9. (a) Size of Drill Bit (inches)			7-7/8			
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)			2-7/8			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)			5,350'			
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)			*Remarks			
(b) In Second Slurry			*Remarks			
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry			1,700			
(b) In Second Slurry			300			
(c) In Third Slurry						
(d) Total Sacks of Cement Used			2,030			
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry			1.81			
(b) In Second Slurry			1.39			
(c) In Third Slurry						
16. Volume of Slurry Pumped (cu.ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry			3,077			
(b) In Second Slurry			459			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)			3,536			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)			5,350' to 0'			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)			Yes			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

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R.R.C. OF TEXAS
JAN 04 1973

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30164

26. Remarks: HUMBLE OIL & REFINING COMPANY
L. D. Thompson #B-9 -- Bee County

13. (a) Lite-Wate
(b) 1-1 TALC 'H', + 18% Salt, + .1% AF-2

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Henry Poe
Signature of Cementer or Authorized Representative

Henry Poe -- Service Supervisor
Name of Person and Title (type or print)

THE WESTERN COMPANY
Cementing Company

P. O. Box 1186
Street Address or P.O. Box

Robstown, Texas 78380
City, State Zip Code

Telephone 512 387-1523
Area Code

October 19, 1972
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

WILSON TOWER
*Street Address or P.O. Box

CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

1-3-73
*Date

– INSTRUCTIONS –

1. A. The completed original and one copy of this form shall be filed by the operator in the RRC District Office with the required two copies of Form G-1, Gas Well Back Pressure Test, Completion or Recompletion Report and Log; Form W-2, Oil Well Potential Test, Completion, or Recompletion Report and Log; Form W-3, Plugging Record; or if tubingless completions, Form W-4, Application for Multiple Completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing:
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

FORM W-1 (3-1-70)

API No. - 42 DIST. 2

API NO. 42 025 30166

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1. Operator
Humble Oil & Refining Company

2. Address (Including City and Zip Code)
Wilson Tower
Corpus Christi, Texas 78401

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES [X] NO [ ]

4. Lease Name
Laura D. Thomson "B"

5. Location (Sec., Blk., Survey)
Patrick Downey (A-20)

6. This well is to be located 7.9 miles Northeast Direction from Papalote, Texas Nearest Post Office or Town.

7. RRC District
Two

8. County
Bee

9. Well Number
9

10. Number of Acres in Lease
10,500

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.)
Over 467

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat Above 5500	5500	--	467 1200	40	40	No	--	Yes	Oil	--	--

RECEIVED R.R.C. OF TEXAS SEP 27 1972 D.G. SAN ANTONIO, TEXAS

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS: 5400' N-SW of Laura Thompson Rd.

CERTIFICATE

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: Grady Coyle

Grady Coyle

Title: Proration Specialist

Date: September 26, 1972

Telephone: Area Code 512 884-4571

OK

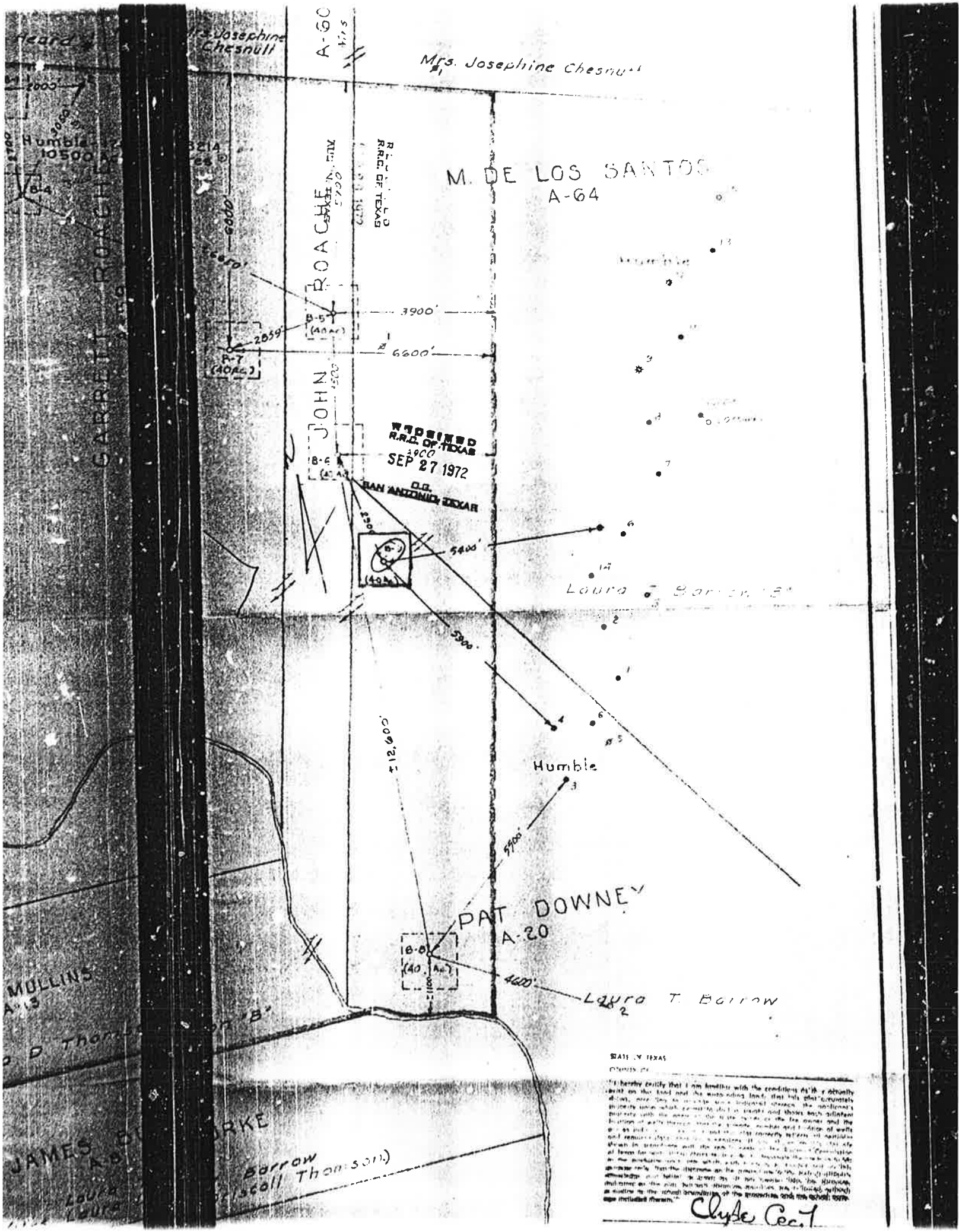
DE

- OVER -

8

4610 2039 6 9 10 2 5

Ira Heard
Ira Heard
(40 Ac.)
B-2
B-1
B-4
JOHN TOOLE ET AL
A-67
WM BURKE
A-9
GARRETT ROACH
A-59
JOHN CASSIDY
A-13
A-4
L. BARTELS
RICH BAUMACHER & LANGENHEIM
A-18
J. H. MULLINS
A-3
JAMES
A-8



Mrs. Josephine Chesnutt
A-60
Mrs. Josephine Chesnutt
Humble
10500
M. DE LOS SANTOS
A-64
JOHN ROACHE
GARRETT ROACHE
R.R.C. OF TEXAS
3900'
6600'
2859'
B-5
(40 Ac.)
B-7
(40 Ac.)
B-6
(40 Ac.)
B-9
(40 Ac.)
5400'
5900'
±12,600'
Humble
5900'
PAT DOWNEY
A-20
B-8
(40 Ac.)
4600'
Laura T. Barrow
MULLINS
A-13
JAMES
Barrow
Thomson)
Clyde Cecil

MAP ID #98

API# 42-025-33343
GAS WELL
PLUGGED

(98)

RECEIVED
R.R.C. OF TEXAS
JUN 16 2008
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. (if available) 42-025-33343

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 217430

2. FIELD NAME (as per RRC Records): Moss Gully (Frio 3910)

3. Lease Name: Thomson-Barrow

5. Well Number: 3

6. OPERATOR: Salida Exploration, LLC

6a. Original Form W-1 Filed in Name of: Salida Exploration, LLC

10. County: Bee

7. ADDRESS: 310 N. Willis, Ste 236, Abilene, TX 79603

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 10-11-2005

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 650 Feet From NW Line and 1700 Feet From SW Line of the Thomson-Barrow Lease

12. Permit Number: 601708

9a. SECTION, BLOCK, AND SURVEY: Garrett Roache, A-59

9b. Distance and Direction From Nearest Town in this County: 13 miles NE of Papalote

13. Date Drilling Commenced: 8-27-05

16. Type Well (Oil, Gas, Dry): Gas

Total Depth: 5454'

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 9-6-05

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 4/17/08

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	4/16	4/17	4/17	4/17				
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2	4 1/2				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	3905	1060	750	13				
*22 Sacks of Cement Used (each plug)	15	70	35	5				
*23 Slurry Volume Pumped (cu. ft.)	17.7	82.6	41.3	5.9				
*24. Calculated Top of Plug (ft.)	3755	850	650	surf.				
25. Measured Top of Plug (if tagged) (ft.)		820						
*26. Slurry Wt. #/Gal.	15.6	15.6	15.6	15.6				
*27. Type Cement	A	A	A	A				

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CENTRAL RECORDS
JUL 18 2008
AUSTIN, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	1006	1006	12 1/4
4 1/2	10.5	4020	4020	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Petroleum Cementing, INC.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY

Owner
TITLE

6-10-08
DATE

Phone 325 676-0600
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission	☒ Yes ☐ No	32. How was Mud Applied?	33. Mud Weight
		Through tubing	9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules?	
5454'			☒ Yes ☐ No	
Depth of Deepest Fresh Water 1000'			36. If NO, Explain	

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well
Petroleum Cementing, INC. 113 S River, Ste 200 Seguin, TX 78155

Date RRC District Office notified of plugging

38. Name(s) and Address(es) of Surface Owners of Well Site
Thomson-Barrow Corp.
6363 Woodway, Suite 630
Houston, Tx. 77057

39. Was Notice Given Before Plugging to the Above? yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs:
☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Perforated at 1060', 750'

Type or Print only
483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

NFD

63185-200

API No. 42- 025-33343

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat) MOSS GULLY (FRIO 3910	2. LEASE NAME THOMSON-BARROW
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) SALIDA EXPLORATION LLC	RRC Operator No. 744095
4. ADDRESS 310 N. WILLIS, SUITE 236, ABILENE, TEXAS 79603	
5 Location (Section, Block, and Survey) GARRETT ROACHE A-59	5b Distance and direction to nearest town in this county 13 MILES NE OF PAPALOTE, TX
6 If operator has changed within last 60 days, name former operator	12 If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil-G Gas-G / Well #
13 Pipe Line Connection NGPL	
14 Completion or recompletion date 10/24/2005	15 Any condensate on hand at time of workover or recompletion? ☐ Yes ☒ No
16. Type of Electric or other Log Run IND E-2 GR-11	

7 RRC District No 2
8 RRC Gas ID No 217430
9 Well No 3
10. County of well site BEE
11 Purpose of filing
Initial Potential ☒
Retest ☐
Reclass ☐
Well record only (Explain in remarks) ☐

RECEIVED R.R.C. OF TEXAS DEC 02 2005 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Section I — GAS MEASUREMENT DATA

Date of Test: 11/1/2005
Gas Measurement Method (Check One): Orifice Meter ☐ Flange Taps Pipe Taps ☐ Positive Choke ☒ Orifice Vent Meter ☐ Pitot Tube ☐ Critical-flow Prover ☐
Gas production during test: 37.9 MCF

Run Size	Line Size	Orif. or Choke Size	24 hr Coeff. Orif or Choke	Statio P_m or Choke Press	Diff h_w	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		8/64	0.35	880		71	0.9896	1.0179	1.0677	298.0
2		7/64	0 29	955		72	0.9887	1.0179	1.0729	245.0
3		6/64	0 20	1,130		72	0.9887	1.0179	1.0859	210.0
4		5/64	0 15	1,230		72	0.9887	1.0179	1.0929	156.0

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg Shut-in Temp	Bottom Hole Temp
0.5790	0.0 Deg API	0 CF/Bbl	G_{mix} = 0.5790	113 0 °F	152 °F @ 3,913 (Depth)

$D_{eff}^{8/3}$ = 6.307 $\sqrt{T_f} = \sqrt{572} =$ 23.91 $\sqrt{GL} = \sqrt{2266} =$ 47.603

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} =$ 294.880 $\frac{\sqrt{GL}}{C} = \frac{47.603}{294.880} =$ 0.161

Run No	Time of Run Min.	Choke Size	Wellhead Press P_W PSIA	Wellhead Flow Temp °F	P_W2 (Thousands)	R^2	D^2 (Thousand)	P_1	P_w/P_1
Shut-in		-	1,495	74	2,235	-	-	-	-
1	60	8/64	880	71	774	48.1	1.6	881.3	0.9985
2	60	7/64	955	72	912	39.6	1.6	955.8	0.9991
3	60	6/64	1,130	72	1,277	33.9	0.6	1,130.5	0 9996
4	60	5/64	1,230	72	1,513	25.2	0.6	1,230 3	0.9998

Run No	F	K	$S = \frac{1}{\gamma}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (Thousands)	$P_f^2 - P_s^2$ (Thousand)
Shut-in		0.0741	1 1724	1.0908	1,631	2,660	-
1	0.9993	0.0743	1.1468	1.0889	960	921	1,739
2	0.9996	0.0742	1 1500	1.0891	1,041	1,084	1,576
3	0.9998	0.0743	1.1583	1.0898	1,232	1,518	1,142
4	0 9999	0.0743	1.1628	1 0902	1,341	1,799	861

Angle of Slope
θ 48.93
n 0 8715
Absolute Open Flow
..... 417.9 ..... MCF/DAY

RECEIVED RRC OF TEXAS RECORDS NOV 30 2005 AUSTIN, TEXAS

WELL TESTER'S CERTIFICATION I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well were furnished by the operator of the well

Signature Well Tester — Stuart Petroleum Testers (Name of Company) — RRC Representative

RECEIVED RRC OF TEXAS DEC 14 2005 O&G AUSTIN TX

OPERATOR'S CERTIFICATION I declare under penalties prescribed in Sec 91 143 Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Signature Operator's representative — Owner (Title) — 11-29-05 (Date) — Tel 325 676-0600 (A/C Number)

190

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

JUL 28 2006

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Deepen — DATE 12/27/04 — PERMIT NO. 601708

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: SALIDA EXPLORATION LLC

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 160

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 8-27-05; Completed 9-6-05

23. Distance to nearest well Same Lease & Reservoir

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 650 Feet From NW Line and 1700 Feet from SW Line of the THOMSON-BARROW Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 90' GR

26. Was directional survey made other than inclination (Form W-12)? [ ] Yes [X] No

27. Top of Pay: 3,910

28. Total Depth: 5,454

29. P.B. Depth: 4058'

30. Surface Casing Determined by: Field Rules [ ]; Recommendation of T.D.W.R [X]; Railroad Commission (Special) [ ]; Dt. Of Letter 6/14/2005; Dt. Of Letter

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-O GAS-G	WELL #

33. Intervals Drilled by: Rotary Tools X; Cable Tools

34. Name of Drilling Contractor: PROGRESS

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All String Set in Well)

CASING SIZE	WT#/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	1006		CLASS #280	12 1/4	SURFACE	599.2
4 1/2	10.5	4020		TXI-LW 235	7 7/8	3130'	264.5

37. LINER RECORD

SIZE	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

SIZE	Depth Set	Packer Set
2 3/8	3831	3831

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	3909	To	3916
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATIONS TOPS)

Formations	Depth	Formations	Depth
Catahoula	3200'		

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RECEIVED
SEP 22 2005

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

6. RRC District: 2
7. RRC Lease Number. (Oil completions only):
8. Well Number: #3
9. RRC Identification Number (Gas completions only):
10. County: Bee

1. FIELD NAME (as per RRC Records or Wildcat): Wildcat
2. LEASE NAME: Thomson Barrow
3. OPERATOR: Salida Exploration, LLC
4. ADDRESS: 310 North Willis Suite 236 Abilene, Texas 79603
5. LOCATION (Section, Block, and Survey): Garrett Roache Survey A-59

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RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
500	5.00	1/4	.44	2.20	2.20
1000	5.00	1/4	.44	2.20	4.40
1500	5.00	1/4	.44	2.20	6.60
2000	5.00	1/4	.44	2.20	8.80
2500	5.00	1/2	.87	4.35	13.15
3000	5.00	1/2	.87	4.35	17.50
3500	5.00	1/2	.87	4.35	21.85
4000	5.00	1/2	.87	4.35	26.20
4500	5.00	1/2	.87	4.35	30.55
5000	5.00	1/2	.87	4.35	34.90
5446	4.46	1/2	.87	3.88	38.78

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☐ no
18. Accumulative total displacement of well bore at total depth of 5446 feet = 38.78 feet.
*19. Inclination measurements were made in -- ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line 650' feet.
21. Minimum distance to lease line as prescribed by field rules 467' feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO
(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

James Montgomery
Signature of Authorized Representative

James Montgomery, President
Name of Person and Title (type or print)

Progress Drilling, Inc.
Name of Company

Telephone: (830-)875-3442
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

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Signature of Authorized Representative

Greg N. King - Owner
Name of Person and Title (type or print)

Salida Exploration LLC
Operator

Telephone: 325 676-0600
Area Code

Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: 12-2-05

* Designates items certified by company that conducted the inclination surveys.

Cementer: Fill in shaded areas.
Operator: Fill in other items.

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SEP 22 2005

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Salida Exploration LLC	744095	02	Bee

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No.	7. Drilling Permit No
Wildcat	42-025-33343	601708

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No	11. Well No.
Thomas-Barrow			3

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		08-29-05					
13. •Drilled hole size		12¼					
•Est. % wash or hole enlargement		75%					
14. Size of casing (in. O.D.)		8 5/8	T.N.R.C.C. LETTER DATED			6-14-05	
15. Top of liner (ft.)			Depth			6,000, 7700 ft.	
16. Setting depth (ft.)		1006	13(A) Exception Dated				
17 Number of centralizers used		6	Surface Casing			ft.	
18. Hrs. waiting on cement before drill-out			D.V. @			ft.	
1st Slurry	19. API cement used: No. of sacks ▶	280					
	Class ▶	H					
	Additives ▶	15%Poz w/8%Gel w/3%Salt w/¼#Cello/Sk.					
2nd Slurry	No of sacks ▶	105					
	Class ▶	H					
	Additives ▶	3%Cacl.	w/¼#Cello/Sk.				
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	599.2					
	Height (ft.) ▶	1451.8					
2nd	Volume (cu. ft.) ▶	123.9					
	Height (ft.) ▶	300.1					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	723.1					
	Height (ft.) ▶	1751.99					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

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OIL & GAS DIVISION
SAN ANTONIC TEXAS

22. Remarks

32 bbls. Cement Returns.

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O&G
AUSTIN TX

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Weldon Oliver-President — Name and title of cementer's representative
International Services Inc. — Cementing Company
Signature

P.O. Box 1285 — Address
Luling, Texas 78648 — City, State, Zip Code
(830)875-9503 — Tel.: Area Code Number
08-29-05 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Greg N. King — Typed or printed name of operator's representative
Owner — Title
Signature

310 N. Willis, Suite 236 — Address
Abilene Tx 79603 — City, State, Zip Code
325-676-0600 — Tel.: Area Code Number
11-3-05 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaed areas.
Operator Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Divsion

1 Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
SALIDA EXPLORATION LLC	744095	02	BEE

5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No	7. Drilling Permit No.
WILDCAT	42-025-33343	601708

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11 Well No.
THOMSON-BARROW			#3

CASING CEMENTING DATA:		SURFACE CASING	DRILL LINER CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				9/8/2005			
13 ●Drilling hole size				7 7/8			
●Est % wash or hole enlargement							
14. Size of casing (in O D)				4 1/2			
15. Top of liner (ft)							
16. Setting depth (ft)				4058			
17 Number of centralizers used				15			
18 Hrs. waiting on cement before drill-out							
1st Slurry	19 API cement used: No. of sacks ►			235			
	Class ►			TXI			
	Additives ►			REMARKS			
2nd Slurry	No. of sacks ►						
	Class ►						
	Additives ►						
3rd Slurry	No. of sacks ►						
	Class ►						
	Additives ►						
1st	20. Slurry pumped: Volume (cu ft.) ►			268			
	Height (ft) ►			1182			
2nd	Volume (cu ft) ►						
	Height (ft) ►						
3rd	Volume (cu ft.) ►						
	Height (ft) ►						
Total	Volume (cu ft) ►			268			
	Height (ft.) ►			1182			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				NO			

REMARKS
SLURRY TXI-LW + 9% D065 + 2% D046 + 02% D13 @ 14 PPG

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SAN ANTONIO, TEXAS

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DEC 14 2005
O&G
AUSTIN TX

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Reggie Hanberry Service Supervisor	Schlumberger	
Name and title of cementer's representative	Cementing Company	Signature

1126 Airport Road	Alice	TX 78332	(361)-668-5100	9/8/2005
Address	City,	State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

GREG N. KING	OWNER	
Typed or printed name of operator's representative	Title	Signature

310 N. WILLIS, STE. 236 ABILENE, TX. 79603	(325) 676-0600	11-29-05
Address City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's State Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

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- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

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E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can quality as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

PRECISION ENERGY SERVICES

SIMULTANEOUS TRIPLE INDUCTION / SPECTRAL DENSITY / NEUTRON LOG

COMPANY SALIDA EXPLORATION, LLC
WELL THOMSON-BARROW #3
FIELD WILDCAT
COUNTY BEE
STATE TEXAS

COMPANY SALIDA EXPLORATION, LLC

RECEIVED R.R.C. OF TEXAS DEC 02 2005 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Location 3150' FNW & 2250' FSW OF THE G. ROACHE SURVEY A-59

Other Services: SFT

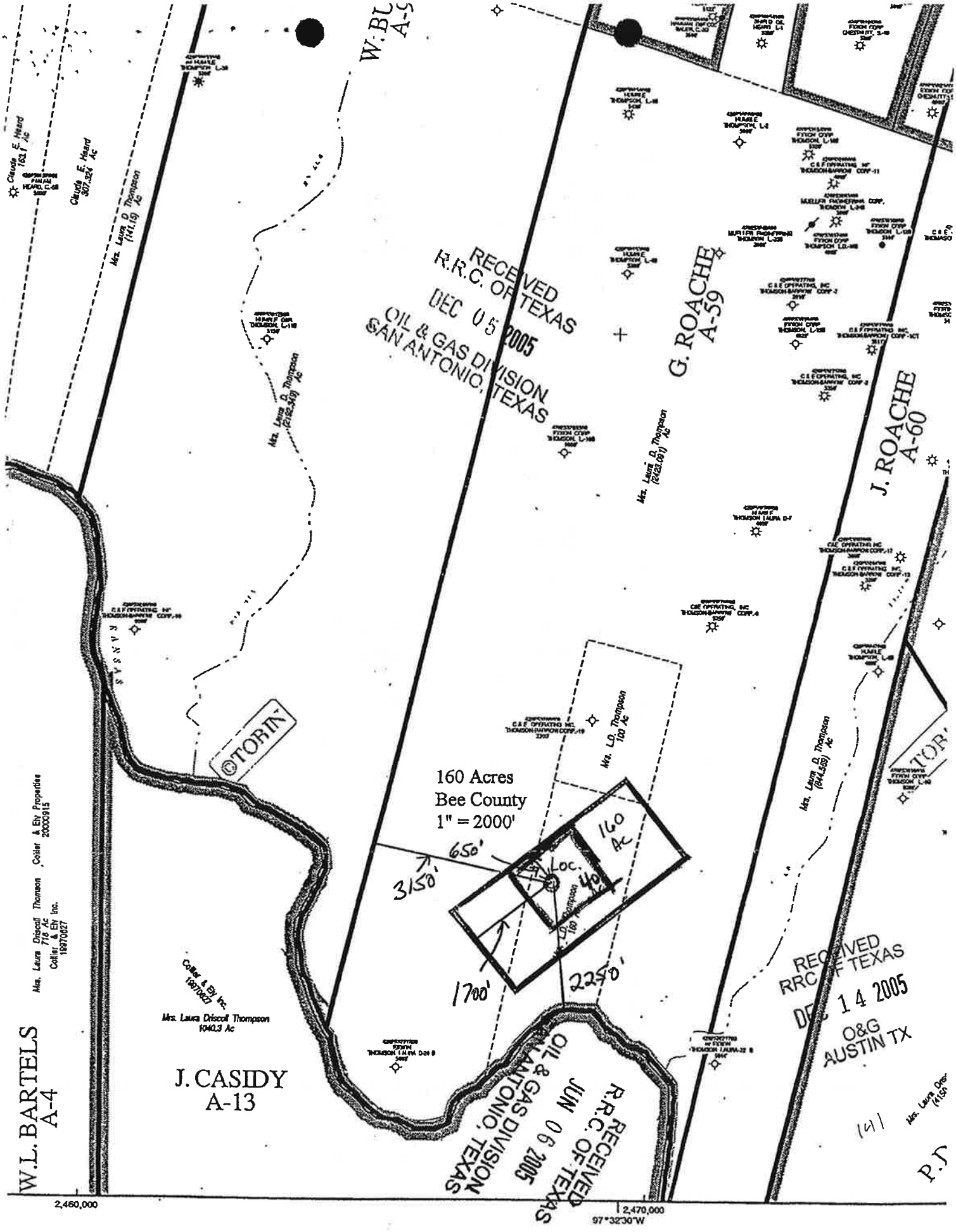
API 42-025-33343
SEC. N/A TWP N/A RGE N/A

Perm. Datum GROUND LEVEL Elev. 90 ft
Log measured from KB , 5 ft above Permanent Datum.

ELEV. K.B. 96 ft
D.F. 95 ft
G.L. 90 ft

Date	SEPTEMBER 06, 2005		
Run No.	TWO		
Bot. Driller	5414 ft.	ft.	ft.
Bot. Logger	5454 ft.	ft.	ft.
First Reading	5447 ft.	ft.	ft.
Last Reading	1010 ft.	ft.	ft.
Log Interval	4437 ft.	ft.	ft.
Csg. Driller	8.625 in.@ 1000 ft.	in.@ ft.	in.@ ft.
Csg. Logger	1010 ft.	ft.	ft.
Bit Size	7.875in.	in.	in.
Fluid Type	WATER BASED		
Dens. / Visc.	10.0 lbm/gal / 55 s	lbm/gal / s	lbm/gal / s
pH / Fluid Loss	9.5 / 5.8 cc	/ cc	/ cc
Sample Source	FLOWLINE		
Rm @Temp.-meas	0.8 ohm-m @ 85 °F	ohm-m @ °F	ohm-m @ °F
Rmf @Temp.-meas	0.6 ohm-m @ 85 °F	ohm-m @ °F	ohm-m @ °F
Rmc @Temp.-meas	1.0 ohm-m @ 85 °F	ohm-m @ °F	ohm-m @ °F
Rm @BHT -calc	0.5 ohm-m @ 150 °F	ohm-m @ °F	ohm-m @ °F
Rmf @BHT -calc	0.4 ohm-m @ 150 °F	ohm-m @ °F	ohm-m @ °F
Last Circ.	09/06/05 - 1430 hrs.	- hrs.	- hrs.
Max Rec. Temp	150°F	°F	
Operating Time	4.0 hrs.	hrs.	hrs.
Unit# / Loc.	367 / ALICE OH	/	
Recorded By	A. BROWNLEE		
Witnessed By	G. KING		

RECEIVED RRC OF TEXAS DEC 14 2005 O&G SAN ANTONIO TX



W.BU
A-9
Claude E. Heard
163.1 Ac
Claude E. Heard
307.324 Ac
Mrs. Laura D. Thompson
(141.15) Ac
Mrs. Laura D. Thompson
(2192.349) Ac
RECEIVED
R.R.C. OF TEXAS
DEC 05 2005
OIL & GAS DIVISION
SAN ANTONIO, TEXAS
G. ROACHE
A-59
J. ROACHE
A-60
Mrs. Laura D. Thompson
(2423.091) Ac
Mrs. L.D. Thompson
100 Ac
Mrs. Laura D. Thompson
(844.569) Ac
©TORIN
160 Acres
Bee County
1" = 2000'
650'
3150'
160 Ac
Loc.
40
1700'
2250'
Mrs. Laura Driscoll Thompson
718 Ac
Collier & Ely Inc.
19970627
Collier & Ely Properties
20000915
Collier & Ely Inc.
19970627
Mrs. Laura Driscoll Thompson
1040.3 Ac
J. CASIDY
A-13
W.L. BARTELS
A-4
RECEIVED
R.R.C. OF TEXAS
JUN 06 2005
OIL & GAS DIVISION
SAN ANTONIO, TEXAS
RECEIVED
RRC OF TEXAS
DEC 14 2005
O&G
AUSTIN TX
141
2,460,000
2,470,000
97°32'30"W

MAP ID #99

API# 42-025-32217
DRY HOLE

22 Thompson "B"
Refugio

(99)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42 (If available) 025 32217

1 RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or Id. Number:

2 FIELD NAME (as per RRC Records): WILDCAT

3 Lease Name: LAURA THOMPSON "B"

5 Well Number: 22

5. OPERATOR: EXXON CORPORATION

6a. Original Form W-1 Filed in Name of: EXXON CORPORATION

10 County: BEE

7. ADDRESS: WILSON TOWER
CORPUS CHRISTI, TX 78476

6b. Any Subsequent W-1's Filed in Name of: EXXON CORPORATION

11 Date Drilling Permit Issued: 11-7-84

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 8250 Feet From SE Cor. and 4825 Feet From EAST Line of the LAURA THOMPSON "B" Lease

12 Permit Number: 256943

9a. SECTION, BLOCK, AND SURVEY: JOHN ROACHE AB*60

9b. Distance and Direction From Nearest Town in this County: 9mi E from SKIDMORE

13 Date Drilling Commenced: 11-13-84

16. Type Well (Gas, Oil or Dry): 5844

17 If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 11-20-84

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 11/22/84

CEMENTING TO PLUG AND ABANDON DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19 Cementing Date	11/22	11/22/84						
20. Size of Hole or Pipe in which Plug Placed (inches)	8 5/8	8 5/8						
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	240	1125						
*22. Sacks of Cement Used (each plug)	50	75						
*23. Slurry Volume Pumped (cu. ft.)	59	88.5						
*24. Calculated Top of Plug (ft.)	1200	1050						
24. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. (#/Gal.)	15.6	15.6						
*27. Type Cement	A	A						

WATER WELL
See attached P-13

28 CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	1220	1220	12 1/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? Yes [ ] No [X]

29a. If answer to above is "Yes" state depth to top of "Junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

WATER BOARD LETTER DATED 11-6-84

Depth 1050 ft.

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM open hole from 1220 TO 5844
FROM TO
FROM TO
FROM TO

1 STATE Exception Dated FROM TO
Surface Casing FROM TO ft.
DIFF FROM TO ft.

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Billy Barnes
Signature of Cementer or Authorized Representative

Return to Central Records

HALLIBURTON SERVICES
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Helen Casner — Proration Specialist — 3-21-85 — Phone 512-887-2228
REPRESENTATIVE OF COMPANY Helen Casner — TITLE — DATE — A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
DEC - 7 1984
R & R ACCOUNTING
EXXON CORP.

025-32217

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — [X] Yes [ ] No

32. How was Mud Applied? PUMPED THRU TUBING

33. Mud Weight 9.5 LBS/GAL

34. Total Depth 5844

Depth of Deepest Fresh Water 1050

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: HALLIBURTON SERVICES 5338 LEOPARD CORPUS CHRISTI TX

Date RRC District Office notified of plugging

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[X] Log Attached [ ] Log released to _____ Date _____

Type Logs

[X] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS _____

000041 1438

EXXON COMPANY, U.S.A
WILSON TOWER • CORPUS CHRISTI, TEXAS 78476 2099

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

DRILLER'S LOG

FROM	TO	FORMATION
0	1334	SAND
1334	5844	SAND SHALE

I, HELEN CASNER, REPRESENTING EXXON CORPORATION, DO CERTIFY THAT THE FOREGOING HAS BEEN EXTRACTED FROM THE DAILY DRILLERS REPORT OF THE LOVER THOMPSON 'B' #22 WELL IN Bee COUNTY, TEXAS AND THAT THE SAME IS A TRUE AND CORRECT STATEMENT OF THE INFORMATION REVEALED IN THE REPORT, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE: 3-26-85

EXXON CORPORATION

BY: Helen Casner
HELEN CASNER

0 0 0 0 4 1 1 4 3 9

Exxon Co. U. S. A.
B-22 L[redacted] Thomas
Bee

Cementer: Fill in shaded areas
Operator: Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
403-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
EXXON CORP.	257097	02	BEE

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
WILDCAT	42-025 32217	256943

8 Lease Name	9 Rule 37 Case No	10 Oil Lease Gas ID No	11 Well No
LAURA THOMPSON "B"			22

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		11/14/84					
13 *Drilled hole size		12 1/4					
*Est. % wash or hole enlargement							
14 Size of casing (in. O.D.)		8 5/8					
15 Top of liner (ft.)							
16 Setting depth (ft.)		1220.5					
17 Number of centralizers used		10					
18 Hrs. waiting on cement before drill-out		17					
1st Slurry	19 API cement used: No. of sacks ▶	400					
	Class ▶	HLC					
	Additives ▶	6% gel +	3% salt				
2nd Slurry	No. of sacks ▶	300					
	Class ▶	A					
	Additives ▶	2% CaCl2					
3rd Slurry	No. of sacks ▶	50					
	Class ▶	A					
	Additives ▶	2% CaCl2					
1st	20 Slurry pumped: Volume (cu. ft.) ▶	740					
	Height (ft.) ▶	1793					
2nd	Volume (cu. ft.) ▶	354					
	Height (ft.) ▶	858					
3rd	Volume (cu. ft.) ▶	59					
	Height (ft.) ▶	143					
Total	Volume (cu. ft.) ▶	1153					
	Height (ft.) ▶	2794					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

22 Remarks

OVER ▶

000041 1442
48926

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

#69746

Form P-13
Rev. 9/79

APPLICATION OF LANDOWNER TO CONDITION AN ABANDONED WELL FOR FRESH WATER PRODUCTION

1. Field Name (as per RRC Records or Wildcat)
Wildcat

2. RRC District
2

3. Operator
Exxon Company, U.S.A. (a div. of Exxon Corporation)

4. County
Bee

5. Lease Name and RRC Lease Number
Laura Thompson "B"

6. Well Number
22

7. Location (Section, Block, and Survey)
John Roache (A-60)

8. Name of Operator and his Address

9. Total Depth

10. Is this an Abandoned Producer or a Dry Hole?
Dry Hole

11. Type of Electrical or Other Log Run
Neutron

12. Completion Date of Well
11-20-84

13. Proposed Plugging Depth of Well for Fresh Water Production (ft.)
1050

14. Base of Usable Quality Water
1050

15. Date of TWDB Letter
11-7-84

INSTRUCTIONS
X #2783, protect to 1050' or sfc

1. The completed and signed original of this form shall be recorded in the county where the land lies that contains the well and one certified copy showing the recording data shall be filed in the Railroad Commission District Office.
2. After Commission approval at the office in Austin, an approved copy of the form will be mailed to the landowner, operator, and Railroad Commission District Office.
3. Prior to plugging the well, the operator shall file one copy of this Commission approved form with the two copies of Form [illegible] in the Commission District Office.

The undersigned operator and landowner hereby make application to the operator to be authorized to plug the above well in such manner that the well is left open to the above depth so that the landowner is enabled and equipped to use the well for production of fresh water.

The undersigned landowner further obligates himself, his heirs, successors and assignees, as a condition to the Commission granting of this application, to complete the plugging of the well if and when it is abandoned as a fresh water well, or when it becomes evident that the existence of the well is found to constitute a menace to any oil, gas or fresh water strata in that area, and plugged as ordered by the Commission.

The authority to complete the well in the manner prescribed shall not be construed as authority for any party to produce fresh water from the well.

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

LANDOWNER

2-14-85
Date

Thomas D Barrow
Signature of Landowner

Thomas D. Barrow
Name of Landowner (type or print)

P. O. Box 4587
Street Address or P.O. Box

Houston, Texas 77210
City, State Zip Code

Telephone: 713 552-8656
Area Code

OPERATOR

2/21/85
Date

A.D. Carpenter
Signature of Operator or Authorized Representative

A.D. CARPENTER, Div. Operations Mgr.
Name of Person and Title (type or print)

Exxon Co., U.S.A. (a div. of Exxon Corp.
Operator

Wilson Tower
Street Address or P.O. Box

Corpus Christi, Texas 78476
City, State Zip Code

Telephone: 512 887-2200
Area Code

409

RECORDING DATA
Recorded Date: 4-9
Book: [illegible]
Page: [illegible]
Date Copy Sent: [illegible]
Initials:

RAILROAD COMMISSION APPROVAL
MAR 15 1985
Date

Signature of Commission Representative
Austin Office

Distribution by RRC after Approval
1 Landowner
1 Operator
1 RRC District Office
1 RRC Files Austin

196

000041 1443

THE STATE OF TEXAS
COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared Thomas D. Barrow, referred to as landowner in the instrument attached hereto, and being by me duly sworn acknowledged to me that he executed said instrument for the purposes and consideration therein expressed.

Perry V. Ruff
Notary Public in and for
PERRY V. RUFF
Notary Public, State of Texas
My Commission Expires 2-5-86

Recorded this _____ day of _____ 19__

_____ Clerk

STATE OF TEXAS
COUNTY OF BEE

I, JULIA V. TORRES, Clerk of the County Court of said County hereby certify that the foregoing Instrument of Writing with its certificate _____ of authentication, was filed for record in my office March 4, 1985 at 8:00 o'clock A.M., and with this certificate of record was duly recorded March 5, 1985 in the Deed Records of said County, in volume 409 page 196 & 197.

To certify, WITNESS my hand and the seal of the County Court of said County, at office in BEEVILLE, TEXAS, this March 5, 1985

JULIA V. TORRES Clerk
County Court, Bee County, Texas
By Lindalyn Salazar Deputy

VOL 409 PAGE 197

FILED FOR RECORD
4 day of March 1985
at 2:00 o'clock P.M.

JULIA V. TORRES
Clerk County Court, Bee Co., Tex.
By Lindalyn Salazar Deputy

COMPARED 4926

000041 1441

48926

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

#69746

Form P-13
Rev. 9/79

APPLICATION OF LANDOWNER TO CONDITION AN ABANDONED WELL FOR FRESH WATER PRODUCTION

1. Field Name (as per RRC Records or Wildcat)
Wildcat

2. RRC District
2

3. Operator
Exxon Company, U.S.A. (a div. of Exxon Corporation)

4. County
Bee

5. Lease Name(s) and RRC Lease Number(s)
Laura Thompson "B"

6. Well Number
22

7. Location (Section, Block, and Survey)
John Roache (A-60)

8. If Operator has changed within last 60 days, give former Operator and his Address.

9. If Well was ever used for Fresh Water Production

10. Is this an Abandoned Producer or a Dry Hole?
Dry Hole

11. Type of Electrical or other Log Run
Neutron

12. Completion Date of Well
11-20-84

13. Proposed Plugged Depth for Fresh Water Production (feet)
1050

14. Base of Usable Quality Water
1050

15. Date of TWDB Letter
11-7-84

INSTRUCTIONS

SC #2783, protect to 1050' OKSCE

1. The completed original of this form shall be recorded in the county where the land lies (see reverse side), and one certified copy bearing the recording data shall be filed in the Railroad Commission District Office.
2. After Commission approval of this form in Austin, an approved copy of the form will be mailed to the landowner, operator, and Railroad Commission District Office.
3. After plugging has been completed, the operator shall file one copy of this Commission approved form with the two copies of Form G-1 (Plugging Report) with the Railroad Commission District Office.

The undersigned landowner hereby make application for the operator to be authorized to plug the above well in such manner that the well bore be left open to the above depth so that the landowner may condition and equip such well bore to that depth for production of fresh water.

The undersigned landowner further obligates himself, his heirs, successors and assignees, as a condition to the Commission's approval of this application, to complete the plugging of the well if and when it is abandoned as a fresh water well, or when the condition of the well is found to constitute a menace to any oil, gas, or fresh water strata in that area, such plugging to be ordered by the Commission.

The authority to complete this well in the manner prescribed shall not be construed as authority for any party to produce fresh water from the well.

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

LANDOWNER

Date: 2.14.85

Signature of Landowner: Thomas D Barrow

Thomas D. Barrow
Name of Landowner (type or print)

P. O. Box 4587
Street Address or P.O. Box

Houston, Texas 77210
City, State Zip Code

Telephone 713 552-8556
Area Code

OPERATOR

Date: 2/21/85

Signature of Operator or Authorized Representative: W.D. Barrow

A.D. CARPENTER, Div. Operations Mgr.
Name of Person and Title (type or print)

Exxon Co., U.S.A. (a div. of Exxon Corp.)
Operator

Wilson Tower
Street Address or P.O. Box

Corpus Christi, Texas 78476
City, State Zip Code

Telephone 512 887-2200
Area Code

RECORDING DATA
Recorded in Book 409
Page 196 & 197
Deed records of Bee
County, Texas

RAILROAD COMMISSION APPROVAL
MAR 15 1985

Date

Signature of Commission Representative
Austin Office

Distribution by RRC after Approval
1 - Landowner
1 - Operator
1 - RRC District Office
1 - RRC Files, Austin

409 196

0 0 0 0 4 1

48926

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

#69746

Form P-13
Rev. 9/79

APPLICATION OF LANDOWNER TO CONDITION AN ABANDONED WELL FOR FRESH WATER PRODUCTION

1. Field Name (as per RRC Records or Wildcat): Wildcat	2. RRC District: 2
3. Operator: Exxon Company, U.S.A. (a div. of Exxon Corporation)	4. County: Bee
5. Lease Name(s) and RRC Lease Number(s): Laura Thompson "B"	6. Well Number: 22
7. Location (Section, Block, and Survey): John Roache (A-60)	
8. If Operator has changed within last 60 days, give former Operator and his Address.	
9. If Work over, give former Field (with Reservoir):	10. Is this an Abandoned Producer or a Dry Hole? Dry Hole
11. Type of Electric or other Log run: Neutron	12. Completion Date of Well: 11-20-84
13. Proposed Plugback Depth of Well for Fresh Water Production (feet): 1050	14. Base of Usable Quality Water: 1050
15. Date of TWDB Letter: 11-7-84	

INSTRUCTIONS:

1. The completed original of this form shall be recorded in the county where the land lies (see reverse side), and one certified copy, showing the recording data, shall be filed in the Railroad Commission District Office.
2. After Commission approval of this form in Austin, an approved copy of the form will be mailed to the landowner, operator, and Railroad Commission District Office.
3. After plugging back the well, the operator shall file one copy of this Commission approved form with the two copies of Form 1-3, Plugging Record, in the Railroad Commission District Office.

The undersigned operator and landowner hereby make application for the operator to be authorized to plug the above well in such manner that the well bore be left open to the above depth so that the landowner may condition and equip such well bore to that depth for production of fresh water.

The undersigned landowner further obligates himself, his heirs, successors and assignees, as a condition to the Commission's approval of this application, to complete the plugging of the well if and when it is abandoned as a fresh water well, or when, because the condition of the well is found to constitute a menace to any oil, gas, or fresh water strata in that area, such plugging is ordered by the Commission.

The authority to complete this well in the manner prescribed shall not be construed as authority for any party to produce fresh water from the well.

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

LANDOWNER

✓ 2-14-85
Date

✓ Thomas D Barrow
Signature of Landowner

Thomas D. Barrow
Name of Landowner (type or print)

P. O. Box 4587
Street Address or P.O. Box

Houston, Texas 77210
City, State Zip Code

Telephone: 713 552-8656
Area Code

OPERATOR

✓ 2/21/85
Date

✓ [signature]
Signature of Operator or Authorized Representative

A.D. CARPENTER, Div. Operations Mgr.
Name of Person and Title (type or print)

Exxon Co., U.S.A. (a div. of Exxon Corp.
Operator

Wilson Tower
Street Address or P.O. Box

Corpus Christi, Texas 78476
City, State Zip Code

Telephone: 512 887-2200
Area Code

RECORDING DATA:
Recorded in Book 409
Page 196 + 197
Deed Recorded Bee
County, Texas

RAILROAD COMMISSION APPROVAL:

Date

Signature of Commission Representative
Austin Office

Distribution by RRC after Approval
1 - Landowner
1 - Operator
1 - RRC District Office
1 - RRC Files, Austin

409 Pg. 196

000041 1448

DRILLING WELL OPERATIONS REPORT
(INSPECTION - PLUGGING - SURFACE)

DATE _____ COUNTY Bee

DATE OF OPERATIONS 11-22-84 TIME 1100 AM

OPERATOR Exxon Corp

LEASE Laura Thomson B WELL NO. 22

FIELD

PERSON CALLING IN Jack Rickner ~~[illegible]~~

DATE SPUDDED _____ DRLG. CONT.

CEMENTING CO Halliburton PERMIT NO 256943

ANY LOST CIR. OR GAS KICK _____ AT WHAT DEPTH _____

WT. OF MUD IN HOLE _____ T.D. 5844

TWC OR FIELD RULES 1050'

PIPE SET 878' AT 1221'

AT

AT

PERFS. No Shows at all

PLUGS TO BE SET

FROM _____ TO _____

FROM _____ TO _____

FROM _____ TO _____

FROM _____ TO _____

11/14/84

REMARKS

retainer at 1500' 50 sx below 25 sx above retainer

RRC AGENT Dry hole

▶ Return each W-1 with plat and $100.00 fee
Make a check or money order payable to the State Treasurer of Texas. Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Drawer 12967, Capitol Station
Austin, Texas 78711
▶ File a copy of W-1 and plat in RRC District Office.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re Enter

▶ Read Instructions on Back

Form W-1
Rev. 9/1/83
483-060

Purpose of filing (mark appropriate boxes)
[XX] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re Enter
[ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No ▶ 42-025-32217 Permit No ▶ 256943 Rule 37 Case No ▶

1. Operator's Name (exactly as shown on Form P-5, Organization Report): Exxon Corporation
3. RRC Operator No: 257097
4. RRC District No: 2
5. County of Well Site: BEE

2. Address (including city and zip code): Wilson Tower, Corpus Christi, TX 78476
007247

6. Lease Name (32 spaces maximum): Laura Thomson "B"
7. RRC Lease ID No:
8. Well No: 22
9. Total Depth: 6400

10. Location
• Section ____ Block ____ Survey John Roache Abstract No. A- 60
• This well is to be located 9.1 miles in a E direction from Skidmore
which is the nearest town in the county of the well site

11. Distance from proposed location to nearest lease or unit line: 4825 ft
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 10,500 (OUTLINE ON PLAT)

Permit Granted 11/7/84 Where Applied for

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is the acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat Above 0000400	6400	467-1200	40	40 ✓	NO	---	oil or gas	---	1

Cdr Dated

22. Perpendicular surface location from two nearest designated lines
• Lease Unit 8250' from SE Cor and 4825' from E line
• Survey Section 6500' from SE cor and 425' from W line

If a directional well, show also projected bottom hole location
• Lease Unit ____
• Survey Section ____

RECEIVED
R. R. C. OF TEXAS
NOV 07 1984

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat) No [XX]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [XX]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks. O. G. ____

26. Do you have the right to develop the minerals under any right of way that crosses or is contiguous to this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Helen Casner
Signature

Helen Casner, Proration Specialist
Name and title of operator's representative

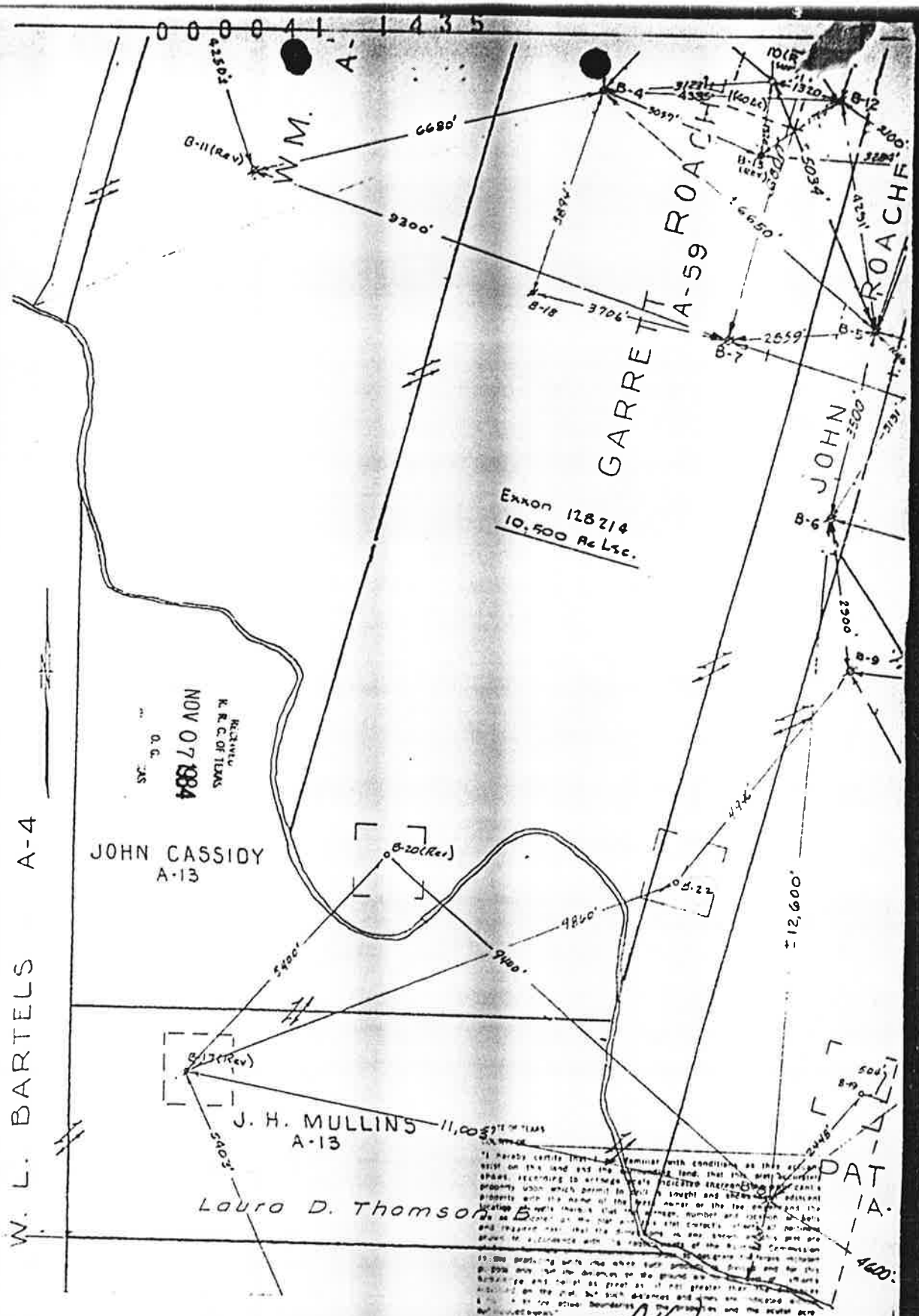
11-6-84
Date (mo. day yr.)

512-887-2228
Tel. Area Code Number

RRC Use Only • NOV 7 84 ✓ W011090 263573

025-32217

000041-1435



NOTE: ALL WELL UNITS SHOWN HAVE 40 ACRES UNLESS OTHERWISE NOTED.

APPLICATION FOR LOCATION WELL # 22

LOCATED 8250 FT. FROM SE ~~LINE~~ CORNER
AND 4825 FT. FROM E LINE OF LEASE
LOCATED 6500 FT. FROM SE ~~LINE~~ CORNER
AND 425 FT. FROM W LINE OF SURVEY

DISTANCES ARE PERPENDICULAR TO LEASE/SURVEY

EXXON CO. U.S.A. – S.T.D. – R.R. COMM

LEASE Laura Thomson "B"
LSE. # 128214 ACREAGE 10,500
SURVEY John Roache (A-60)
FIELD Laura Thomson COUNTY Bee
SCALE: 1" = 2000 DATE: 11 16 84

MAP ID #100

API# 42-025-32917
GAS WELL
PLUGGED

(100)

Received
RRC of Texas
MAR 21 2011
Oil & Gas Division
San Antonio, Texas

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

API No. (if available)	1. RRC District
42- 025-32917	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 172076

2. FIELD NAME (as per RRC records): Laura Thompson (4700)

3. Lease Name: Thompson-Barrow Corp."C"

5. Well Number: 12

6. OPERATOR: C & E Operating, Inc.

6a. Original Form W-1 filed in name of:

10. County: Bee

7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77498

6b. Any subsequent W-1's filed in name of:

11. Date Drilling Permit Issued: 09/03/98

8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 3777.1 feet from west line and 3720.7 feet from north line of the Thomson-Barrow Corp. C lease

12. Permit Number: 479206

9a. SECTION, BLOCK and SURVEY: Miguel DeLosSantos A-64

9b. Distance and direction from nearest town in this county: 11.5 miles NW from Woodsboro

13. Date Drilling Commenced: 10/28/98

16. Type Well (oil, gas, or dry): gas

Total Depth: 5750

If multiple completion list all field names and oil lease or gas id no.'s

Gas ID or Oil Lease #

Oil - O Gas - G

Well #

14. Date Drilling Completed: 11/30/98

18. If gas, amt. of cond. on hand at time of plugging

15. Date Well Plugged: 11/23/10

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date 2010	11/23	11/23	11/23					
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4400	1175	14					
*22. Sacks of Cement Used (each plug)	30	40	5					
*23. Slurry Volume Pumped (cu ft.)	35.4	47.2	5.9					
*24. Calculated Top of Plug (ft.)	4250	700	4					
25. Measured Top of Plug (if tagged) (ft.)		692						
*26. Slurry Wt. #/Gal.	15.6	15.6	15.6					
*27. Type Cement	H	H	H					

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.#/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	950	946	12 1/4
4 1/2	10.5	4606	4602	7 7/8

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4111	TO	4115	FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO

RECEIVED
CENTRAL RECORDS
AUG 30 2011
AUSTIN, TEXAS

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
*Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Signature of Cementer or Authorized Representative

York Cement & Acid
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Boening
REPRESENTATIVE OF COMPANY

Office Manager
TITLE

03/10/11
DATE

PHONE 361 741-3600
A/C NUMBER

cdiaz 4/6/11
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAP DATA

31. Was well filled with mud-laden fluid, according to the regulations of the Railroad Commission?	☒ Yes ☐ No	32. How was mud applied?	33. Mud Weight LBS/GAL
		Circulated	9.5

34. Total Depth	Other Fresh Water Zones by T.D.W.R.		35. Have all abandoned wells on this lease been plugged according to R R C Rules?	☒ Yes ☐ No
	TOP	BOTTOM	36. If No, Explain	
5750 Depth of Deepest Fresh Water 1125	0	750		

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well	Date RRC District Office notified of plugging
York Cmt & Acid 6511 FM 1464 PMB6 Richmond, TX 77407	11/22/10

38. Name(s) and address(es) of surface owners of well site

Thomson-Barrow Corp.
5847 San Felipe
Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42-025 32917

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

R.R.C. RECEIVED OF TEXAS DEC 14 1998 OIL & GAS DIVISION SAN ANTONIO, TEXAS

7. RRC District No.: 2
8. RRC Gas ID No.: 172076
9. Well No.: 12
10. County of well site: BEE

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4700)
2. LEASE NAME: THOMSON-BARROW CORP. "C"
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E OPERATING, INC.
RRC Operator No.: 120074
4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, TX 77478
11. Purpose of filing: Initial Potential [*]; Retest [ ]; Reclass [ ]; Well record only (Explain in remarks) [ ]
5. Location (Section, Block, and Survey): Miguel DeLosSantos Grant A-64
5b. Distance and direction to nearest town in this county: 11.5 miles NW from Woodsboro
6. If operator has changed within last 60 days, name former operator:
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR / GAS ID or OIL LEASE # / Oil—O Gas—G / WELL #:
13. Pipe Line Connection: NGPL
14. Completion or recompletion date: 11/30/98
15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No
16. Type of Electric or other Log Run: Induction

Section I — GAS MEASUREMENT DATA

Date of Test: 12/1/98
Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ]; Positive Choke [X]; Orifice Vent Meter [ ]; Pitot Tube [ ]; Critical-flow Prover [ ]
Gas produced during test: 88 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		9/64	0.444	1470		80.0	0.9813	1.0242	1.0981	720
2		8/64	0.347	1485		80.0	0.9813	1.0242	1.0989	569
3		7/64	0.287	1500		80.0	0.9813	1.0242	1.0996	476
4		6/64	0.203	1510		80.0	0.9813	1.0242	1.1001	339

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas): 0.572
Gravity Liquid Hydrocarbon: Deg. API
Gas-Liquid Hydro Ratio: CF/Bbl
Gravity of Mixture G_{mix} = 0.572
Avg. Shut-in Temp.: 119 °F
Bottom Hole Temp.: 163 °F @ 4413 (Depth)

$D_{eff}^{8/3}$ = 6.307
$\sqrt{T_r}$ = $\sqrt{586.500}$ = 24.218
$\sqrt{GL}$ = $\sqrt{2524.236}$ = 50.242
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = [illegible] = [illegible] = 0.173

RECEIVED 12-30-98 12:00:00 Location — 991075 CODIFICATION — MAY 25 1999

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			1540	75.0	2372				
1	60	9/64	1470	90.0	2161	124.2	15.4	1475.2	0.9964
2	60	8/64	1485	90.0	2205	98.2	9.6	1488.2	0.9978
3	60	7/64	1500	90.0	2250	82.1	6.7	1502.2	0.9985
4	60	6/64	1510	90.0	2280	58.5	3.4	1511.1	0.9993

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0817	1.1639	1.0998	1694	2869.6	
1	0.9982	0.0805	1.1520	1.0972	1619	2620.1	249.5
2	0.9989	0.0806	1.1525	1.0973	1633	2667.1	202.6
3	0.9993	0.0806	1.1530	1.0974	1649	2717.9	151.8
4	0.9996	0.0807	1.1533	1.0975	1658	2750.4	119.2

Angle of Slope: θ 45.24; n 0.9917
Absolute Open Flow: 8175 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Heath Richards — Target Well Services, Inc.
Signature: Well Tester — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Cheryl L. Bowing — President — 12/3/98 — Tel: (512)741-3600
Signature: Operator's representative — Title — Date — A/C Number

MAPPING

VALID PERMIT

DEC 30 1998

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

Permit to Drill, Plug Back or Deepen — DATE: 9/3/98 — PERMIT NO.: 479206

Rule 37 Exception — CASE NO.:

Water Injection Permit — PERMIT NO.:

Salt Water Disposal Permit — PERMIT NO.:

Other — PERMIT NO.:

19. Notice of Intention to Drill this well was filed in Name of: C&E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 16,692.72

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 10/27/98 Completed 11/30/98

23. Distance to nearest well, Same Lease & Reservoir: NA

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 3777.1 Feet From west Line and 3720.7 Feet from north Line of the Thomson-Barrow Corp. "C" Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 107.5

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [ ] No

27. Top of Pay: 4411

28. Total Depth: 5750

29. P. B. Depth: 4562

30. Surface Casing Determined by: Field Rules [ ] Recommendation of T.D.W.R. Railroad Commission (Special) [X] Dt. of Letter 10/8/98

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X Cable Tools

34. Name of Drilling Contractor: Price Drlg. Co.

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24.0	950	--	365 sx A	12¼	surface	690
4 ½	10.5	4606	1404	545 sx H	7 7/8	surface	959

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	4341	4341

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	4411	To	4415
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4411-4415	Perforate 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	3010		
Vicksburg	5560		

REMARKS

RECEIVED
R. C. OF TEXAS
DEC 14 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4700)	2. LEASE NAME: Thomson-Barrow Corp. "C"
3. OPERATOR: C&E Operating, Inc.	
4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, TX 77478	
5. LOCATION (Section, Block, and Survey): Miguel DeLosSantos Grant A-64	

6. RRC District: 02	
7. RRC Lease Number. (Oil completions only)	
8. Well Number: C-12	
9. RRC Identification Number (Gas completions only): 172076	
10. County: Bee	

RECORD OF INCLINATION

*11 Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13 Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
278	278	0.25	0.44	1.22	1.22
950	672	0.25	0.44	2.96	4.18
1760	810	0.50	0.87	7.05	11.23
2720	960	0.50	0.87	8.35	19.58
3707	987	0.75	1.31	12.93	32.51
4628	921	1.00	1.75	16.12	48.63
5370	742	1.50	2.62	19.44	68.07
5750	380	1.50	2.62	9.96	78.03

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 5750 feet = 78.03 feet.

*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 3720 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Richard B. Shaw
Signature of Authorized Representative

Richard B. Shaw Vice-President
Name of Person and Title (type or print)

Price Drilling Company
Name of Company

Telephone: 512 256-3363
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Terry L. Boening
Signature of Authorized Representative

Terry L. Boening President
Name of Person and Title (type or print)

C&E Operating, Inc.
Operator

Telephone: 512 741-3600
Area Code

Railroad Commission Use Only:

Approved By: HELMUTH SCHNEIDER Title: GEOLOGIST Date: 12-15-98

* Designates items certified by company that conducted the inclination surveys.

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No.	4. County of Well Site
C & E OPERATING, INC.	120079	02	BEE

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Laura Thomson (4700)	42- 025 32917	479206

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
Thompson - Barrow Corp. "C"		172076	#12

CASING CEMENTING DATA.		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		10/28/98					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		25	T.N.R.C.C. LETTER DATED 9-1-98				
14 Size of casing (in OD)		8 5/8	Depth 1400' 900'				ft.
15 Top of liner (ft)			13(f) E.[illegible]				
16 Setting depth (ft)		950	Surface Casing				ft.
17 Number of centralizers used		6	D.V. @				ft.
18 Hrs waiting on cement before drill-out		14					
1st Slurry	19 API cement used No of sacks ▶	245					
	Class ▶	A					
	Additives ▶	Salt					
2nd Slurry	No of sacks ▶	120					
	Class ▶	A					
	Additives ▶	CaCl2					
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶	546					
	Height (ft) ▶	1322					
2nd	Volume (cu ft) ▶	144					
	Height (ft.) ▶	349					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu. ft.) ▶	690					
	Height (ft) ▶	1671					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

RECEIVED
R.R.C. OF TEXAS
DEC 14 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

James Tuttle/Service Supervisor — Name and title of cementer's representative
BJ Services Co. — Cementing Company
Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
512-575-6446 — Tel.: Area Code Number
10/28/98 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Terry L. Boening — Signature

345 Commerce Green Blvd., Sugar Land, TX 77478 — Address
(512)741-3600 — City, State, Zip Code; Tel.: Area Code Number
12/3/98 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No	3 RRC District No	4 County of Well Site
C & E OPERATING, INC.	120079	02	BEE

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Laura Thomson (4700)	42-025 32917	479206

8 Lease Name	9 Rule 37 Case No.	10. Oil Lease/Gas ID No	11 Well No
THOMSON - BARROW CORP. "C"		172076	12

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date						11/3/98	11/3/98
13 •Drilled hole size						7 7/8	7 7/8
•Est % wash or hole enlargement						20	10
14 Size of casing (in OD)						4 1/2	4 1/2
15 Top of liner (ft)							
16 Setting depth (ft)						1404	4606
17 Number of centralizers used						8	6
18 Hrs waiting on cement before drill-out							
1st Slurry	19 API cement used No. of sacks ▶					195	100
	Class ▶					A	H
	Additives ▶					Poz,Gel, Salt	Poz,Gel, Salt,R-3
2nd Slurry	No. of sacks ▶					85	165
	Class ▶					A	H
	Additives ▶					CaCl2	Salt,FL-25, ASA-301,SM
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped· Volume (cu ft) ▶					435	223
	Height (ft) ▶					1910	979
2nd	Volume (cu ft.) ▶					101	200
	Height (ft) ▶					444	878
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶					536	423
	Height (ft) ▶					2354	1857
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?						Yes	

22 Remarks

RECEIVED
R.R.C. OF TEXAS
DEC 14 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Larry Langley/Service Supervisor — Name and title of cementer's representative
BJ-Service — Cementing Company
Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
512-575-6446 — Tel.: Area Code Number
11/3/98 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Signature

345 Commerce Green Blvd., Sugar Land, TX 77478 — Address, City, State, Zip Code
(512)741-3600 — Tel.: Area Code Number
12/3/98 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

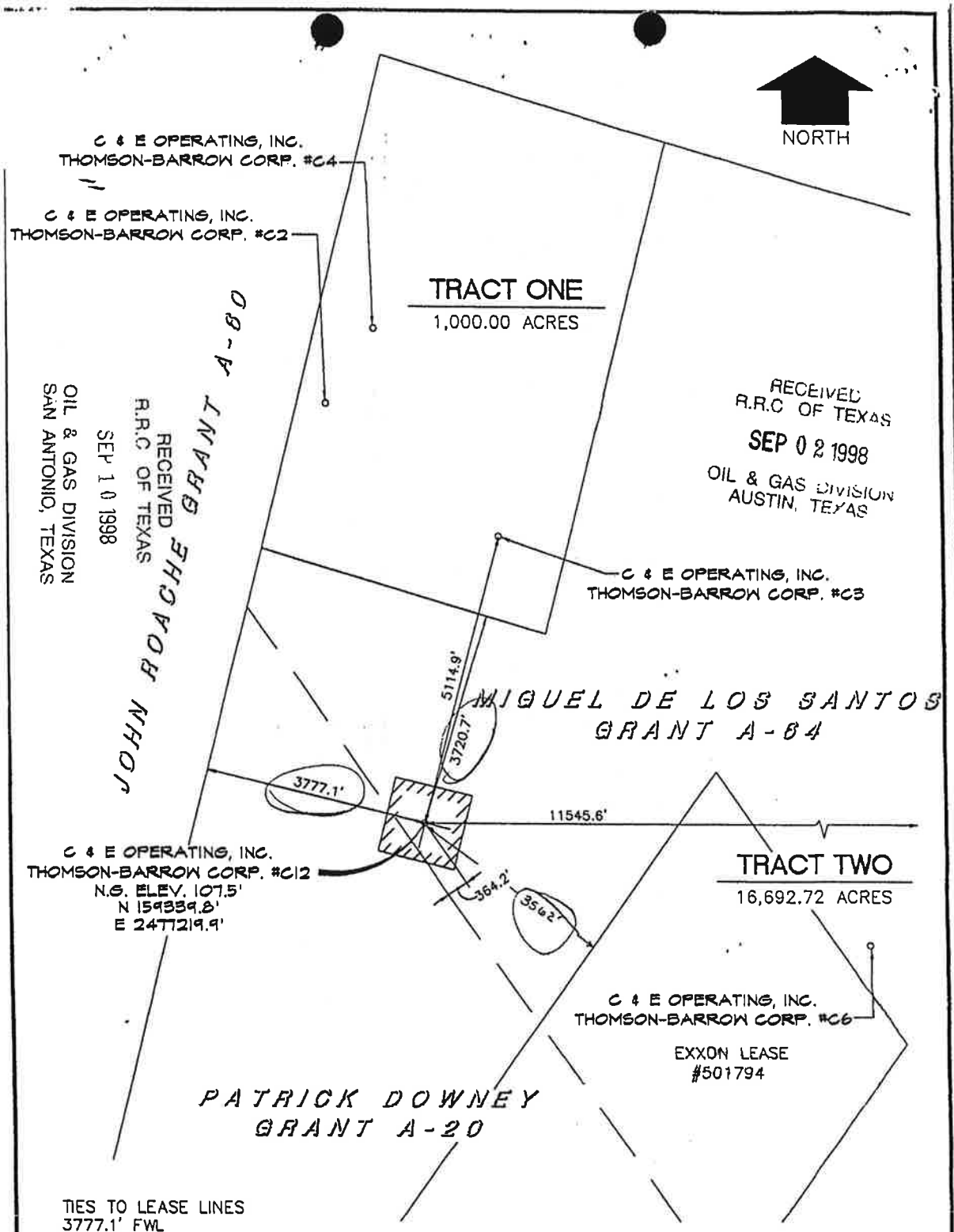
D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.



TIES TO LEASE LINES
3777.1' FWL
3720.7' FNL

TIES TO SURVEY LINES
364.2' FSWL
11545.6' FEL

DISTANCE FROM NEAREST TOWN
11.5 MILES NW OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON AUGUST 25, 1998 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde
REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

8-24-98
DATE

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C12
MIGUEL DE LOS SANTOS GRANT, A-64
BEE COUNTY, TEXAS

JOB NO. :	9873-504
SCALE :	1" = 2000'
DATE :	8/98
DWN. BY :	CAV

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

EXPEDITE

Form W-1
Rev. 9/1/91

▶ Return each W-1 with plat, applicable fee, and "W-1 Compliance Certificate" (W-1c). Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42- 025-32917
▶ Permit No. 479206 [illegible]
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee

2. Address (including city and zip code): 13333 SW Freeway, Suite 105 OK
Sugar Land, Texas 77478
953535

6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. "C"
7. RRC Lease/ID No.:
8. Well No.: 12
9. Total Depth: 6000

10. Location
• Section _____ Block _____ Survey Miguel de los Santos Abstract No. A- 64
• This well is to be located 11.5 miles in a NW direction from WOODSBORO which is the nearest town in the county of the well site. $ per plat

11. Distance from proposed location to nearest lease or unit line 3562' ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 16,692.72 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6000) 4001	6000	467/1200	40	40	No	NA	O/G	1	1
Laura Thomson (4700) 52285150	4700	467/1200	40	40	No	NA	O/G	1	1
Burkes Ridge (1600) 13551600	1600	467/1200	40	40	No	NA	O/G	1	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 3777.1' FWL & 3720.7' FNL
• Survey/Section 364.2' FSWL & 11545.6' FEL

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section
Code 6000

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is item 17 less than item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X]
If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? Yes [X] No [ ]
If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.

Remarks
Please expedite
$150 + $50 = $200

I certify that information stated in this application is true and complete, to the best of my knowledge.
Terry L Boening Terry L. Boening, President
Signature Name and title of operator's representative
8/31/98 (281)265-6500
Date mo. day yr. Tel.: Area Code Number
150 App 50 Sep
200085 SEP 298 • RRC Use Only •
479206

025-32917 MAPPING

MAP ID #101

API# 42-025-02483
DRY HOLE

Application to Drill, Deepen or Plug Back.

RTO

52015

(101)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

RECEIVED
APR 22 1965
R.R. COMM. OF TEXAS

Rule 37 Two Wells - DRILL

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE;

ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.

(Black Ink or Black Typewriter Ribbon Preferable)

AT PS

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on this lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 200 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 514 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

---

Date April 20, 19 65

Name of company or operator

Name Humble Oil & Refining Company

Address Wilson Tower

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Laura T. Barrow "B"

Number of Acres 6127.5 Well No. 18

Number of wells on lease 16

Elevation (Ft. above sea level) Section No. Block No.

Survey Los Ramos Survey (A-4)

Zone or Reservoir 5600' No. 4

To be Located in Laura Thomson (560') Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.)

Bee County

approx. 8 Miles NE direction from

Papalote, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling as soon as permitted.

Depth to which you propose to drill 5900 feet.

Date work will start deepening

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name

Address

See back of this sheet for locations.

NOTICE: Before sending in this form be sure that you have given all information requested. Much correspondence will thus be avoided.

RECEIVED
R.R. COMMISSION OF TEXAS
MAY 10 1965
O. G.
AUSTIN, TEXAS

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

025-02438

DRAW SKETCH IN SPACE BELOW OR FILE CERTIFIED LEASE PLAT
(Be sure that all required locations, footages, distances, and scales are given in clearly legible print. Black printing preferable.)

NORTH

No. 18 - located 1200' SW of #2 & 1200' NW of #1; also being 280' NE of the SW line of the lease.

No. 19 - located 1150' NE of #11 & 514' SE of #12; also being 1150' SW of Laura T. Barrow #13.

It is respectfully requested that a seal be placed on Laura T. Barrow "B" Well No. 12 prior to completion of Well No. 19 so neither well can be produced concurrently from the same sand.

WEST

EAST

RECEIVED
R. R. C. OF TEXAS
MAY 10 1965
O. G.
AUSTIN, TEXAS

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Board of Water Engineers, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

Scale of Plat 1" = 2000'

SOUTH

I, [signature], being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Name Roy H. Bonar Title Administrative Specialist

Subscribed and sworn to before me this 20th day of April, 19 65

[signature] PHYLLIS S. CRALLE
Notary Public Nueces County, Texas

Correspondence regarding this well should be addressed to:
Name A. W. J. Barrett Address Wilson Tower, Corpus Christi, Texas

52015

Please Refer to File No.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application
To Plug and
Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company HUMBLE OIL & REFINING COMPANY Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

Sec. No. — Block No. — Survey LOS SANTOS (A-64) County BEE

Well No. 18 Name of Lease LAURA T. BARRON 'B' No. of Acres 6127.5 Elev. 114' DF

Name of Field in which well is located LAURA THOMSON

Located 8 Miles NE Direction from PAPALOTE, TEXAS (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of HUMBLE OIL & REFINING COMPANY

Drilling Commenced 6-4, 1965. Drilling Completed 6-13, 1965

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) DRY Total Depth 5775

Date you wish to Plug 6-13, 1965.

Name of Party Plugging Well DOWELL Address 511 MELROSE BLDG, HOUSTON, TEXAS

Correspondence regarding this well should be sent to: Name MR. W. J. BARRETT

Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

Initial Production of Gas: Volume (MCF) — 24 hrs. Pressure — lbs. per square inch

Initial Production of Oil: Barrels —

Give notice before Plugging to all available Lease Owners, as required by Rule 10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

RECEIVED
JUL 26 1965
Railroad Commission of Texas
SAN ANTONIO, TEXAS

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks:

RECEIVED
JUL 27 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

B

DR-11

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
SURFACE SAND + CLAY	0	555	
SHALE	555	1604	
SHALE + SAND	1604	2680	
SHALE	2680	2740	
SHALE + SAND	2740	4209	
SHALE	4209	4488	
SHALE + SAND	4488	4948	
SHALE	4948	5600	
SANDY SHALE + SHALE	5600	5775	
TOTAL DEPTH		5775	

Method of shutting off water CASING & CEMENT Is water completely shut off? YES

Amount of water with oil — per cent

I, H. C. SATTERWHITE being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

H C Satterwhite
Representative of Company.

Subscribed and sworn to before me this day of JULY, 19 65

Notary Public
REFUGIO County, Texas.

52015

Route 1, Box 247
Refugio, Texas

July 23, 1965

Re: Abandonment of Well
Corpus Christi Area

Amerada Petroleum Corporation
1611 Niels Esperson Building
Houston, Texas

Gentlemen:

Pursuant to Rule 14 of the Conservation Rules and Regulations of Statewide Application in Texas, this is to advise you as an adjoining lease owner that we are preparing to plug and abandon the following well:

Laura T. Barrow "B" Well #18
Laura Thomson Field

Yours very truly,

HUMBLE OIL & REFINING COMPANY

R. O. Harvey
District Superintendent

jlg

RECEIVED
JUL 27 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

RECEIVED
JUL 26 1965
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

52015

DOWELL DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

511 MELROSE BUILDING
HOUSTON 2, TEXAS

RECEIVED
JUL 26 1965
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

CEMENTING AFFIDAVIT

STATE OF TEXAS

COUNTY OF Victoria

BEFORE ME, a Notary Public in and for Victoria County, Texas, on this day personally appeared E.J. Cockrell of DOWELL, Division of The Dow Chemical Company, who, being by me duly sworn, deposes and says:

THAT on June 7, 1965, DOWELL, Division of The Dow Chemical Company cemented 542 (length) feet of 7-5/8" (size) casing in 9-7/8" hole L.T. Barrow (name of well) WELL NO. #B-18 near Papalote, and in Bee County, Texas, with 266 cubic feet. Cement was (was or ~~was not~~) circulated to surface.

By statement of the operator R.E. Covington

The above work was done for Humble Oil and Refining Company (Name of Operator)

Route One Box 247 (Address), Refugio (City), Texas (State)

BY E.J. Cockrell
E.J. COCKRELL

RECEIVED
JUL 27 1965
Railroad Commission of Texas
TED HAYNES
OIL & GAS INSPECTOR
AUSTIN, TEXAS

Subscribed and sworn to before me this 7th day of June, 1965

Ted Haynes
NOTARY PUBLIC IN AND FOR
Victoria County, Texas.

(SEAL)

52015

DOWELL DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

PLUG BACK AFFIDAVIT

511 MELROSE BUILDING
HOUSTON 2, TEXAS

RECEIVED
JUL 26 1965
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

STATE OF TEXAS

COUNTY OF VICTORIA

BEFORE ME, a Notary Public in and for VICTORIA County, Texas, on this day personally appeared E.J. Cockrell _____, who being by me duly sworn, deposes and says that he is of lawful age and has full knowledge of the following facts:

THAT he is employed by Dowell, Division of The Dow Chemical Company in the capacity of Engineer, and that on June 13, 1965, a plug-to-abandon job was performed for the Humble Oil and Refining Co. (name of company) on the Barrow (lease), Well No. B-18 in Bee (field or county), under the direction, supervision and control of E.E. Boyd (operator) and that 177 cubic feet (or 150 sacks of) cement were used in the setting of this plug. By statement of E.E. Boyd (operator)

this plug was set at 1700 - 1344 / 642 - 349 / 42 - 0 using 88.5 / 76.7 / 11.8

cubic feet (or 150 sacks) of cement.

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JUL 26 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

By E.J. Cockrell
E.J. Cockrell

Subscribed and sworn to before me this 14th day of June, 1965.

(Seal)

T.H. BROWN
Notary Public in and for
VICTORIA County, Texas

Please Refer to File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company HUMBLE OIL & REFINING COMPANY Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

Sec. No. — Block No. — Survey LOS SANTOS (A-64) County BEE

Well No. 19 Name of Lease LAURA T. BARROW 'B' No. of Acres 6127.5

Name of Field in which well is located LAURA THOMSON Date well was plugged 6-13, 1965

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of HUMBLE OIL & REFINING COMPANY

Character of Well at the time of completion: Oil _____ bbls; Gas _____ Cu. Ft.; Dry YES
(Initial Production) (Initial Production)

Amount well producing when plugged: Oil — bbls; Gas _____ Cu. Ft.; Water — bbls.

Has this well ever produced oil or gas? NO

Total Depth 5775 feet. Top of each producing sand NONE feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? YES

How was mud applied? POWER PUMP

Were plugs used? YES If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? _____

PLUGS: 1344' - 1700' - 88.5 sacks; 349' - 642' - 77.6 SACKS; 0 - 42' - 11.8 SACKS. INSTALLED 7⅝" x 2" SWEDGE ON TOP OF 7⅝" CASING

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
7 5/8"	532.66		NONE		532.66		GUIDE SHOE & FLOAT COLLAR

Show depth found and thickness of all water, oil and gas formations NO COMMERCIAL SANDS.

Have all abandoned wells on this lease been plugged according to Commissions rules? YES

Manner of confining all oil, gas or water to strata: CASING & CEMENT

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:
AMERADA PETROLEUM CORP., 1811 NIELS ESPERSON BLDG., HOUSTON, TEXAS

RECEIVED
JUL 26 1965
Railroad Commission of Texas
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

Was notice given before plugging to all available adjacent lease owners as required by Rule 101? _____

I, _____, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

RECEIVED
JUL 27 1965
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS

Name _____ Title DIST. ADMIN. SUPVR.

Subscribed and sworn to before me this _____ day of _____, 1965

Notary Public REFUGIO County, Texas

Correspondence regarding this well should be addressed to:
Name MR. W. J. BARRETT Address WILSON TOWER, CORPUS CHRISTI, TEXAS, 78401

DR-11

MAP ID #102

API# 42-025-01557
OIL WELL
PLUGGED

~~02106~~ 01557 (102)

Plugging Record 02907 RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

2 RRC Lease or Id. Number: 02907

3 FIELD NAME (as per RRC Records): LAURA THOMSON (5600 NORTH)

4 LEASE NAME: LAURA T. BARRON 'B'

5 Well Number: 2

6 OPERATOR: EXXON CORPORATION

10 County: BEE

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 10-13-61

8 SURFACE LOCATION: 2650 FEET FROM E OF W LINE, AND 1000 FEET FROM NE OF SW LINE

12 Date Drilling Commenced: 10-16-61

9 SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS GRANT (A-64)

13 Date Drilling Completed: 10-24-61

15 Type of Well (Oil, Gas, Dry)*: OIL

16 Type of Completion (Single, Dual, Etc.): SINGLE

17 Total Depth: 5700

14 Date Well Plugged: 8-16-73

18 FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19 Manner of Placement

PLUG #1	5 SACKS	TOP 5292	BOTTOM 5442	TYPE CLASS H	
PLUG #2	5 SACKS	TOP 1627	BOTTOM 1777	TYPE CLASS H	
PLUG #3	15 SACKS	TOP 42	BOTTOM 59	TYPE CLASS H	
PLUG #4	SACKS	TOP	BOTTOM	TYPE	

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23. Depth of Deepest Fresh Water: 1515 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25. If NO, Explain

26. Name and Address of Party Plugging Well: CULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8" & 9 5/8"	522.71		518.71	
2 7/8"	5669.13		5665.13	

4 9 5/8" & 7 5/8" CASING CEMENTED TO SURFACE.
2 7/8" CASING - MULTI STAGE TOOL SET @ 1700' AND CEMENT CIRCULATED TO SURFACE.

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases
HARKINS & COMPANY, BOX 1490, ALICE, TEXAS 78332

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R.R.C. OF TEXAS
SEP 4 1973
O.G.

29 Was Notice given before Plugging to each of the [illegible] Office?
YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — PRORATION SPECIALIST — 8-31-73

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:
☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS Cut off casing 4' below ground level and capped well.

0 0 0 0 7 5 0 9 0 8

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson 15600 No. 41	*2. RRC District 2
*3. Operator Exxon Corporation	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or L. D. Number(s) Laura Barron "B" 02907	*6. Well Number B-2
*7. Location (Section, Block, and Survey) Mide Los Santos Grant (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

RECEIVED
R.R.C. OF TEXAS
SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/16/73	8/16/73	8/16/73			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"	2-7/8"			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5442'	1777'	582'			
22. Sacks of Cement Used (each plug)	5	5	15			
23. Slurry Volume Pumped (cu. ft.)	5.9	5.9	17.7			
24. Calculated Top of Plug (ft.)	5292'	1627'	42'			
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

-- OVER --

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

02907

26. Remarks:
Circ well w 9.5# mud.
Cut off 4' below grd level, capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J W Culberson Jr
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr., Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 22, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-31-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

1778

Form W-2
Rev. 7/5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (RRC Reservoir Wildcat) Laura Thomson /5600' #4/	2. LEASE NAME Laura T. Barrow "B"
3. OPERATOR Humble Oil & Refining Co.	9. Well Number 2
4. ADDRESS Wilson Tower, Corpus Christi, Texas	10. County Bee
5. If Operator has changed within last 60 Days — Give former Operator	11. Purpose of Test: Initial Potential ☐ Retest ☒ Recless ☐
6. LOCATION (Section, Block, and Survey) M. de los Santos Grant (A-64)	
12. If Workover — Give former Field (with Reservoir) Same	13. Type of Electric or other Log run	14. Completion Date 10-24-61

7. RRC District 2

8. RRC Lease Number 02907

Section I — POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping — Size & Type of Pump)	18. Choke Size
8-21-70	24	Gas Lift	x7

	Oil – BBLS	Gas – MCF	Water – BBLS	Gas – Oil Ratio	Flowing Tubing Pressure
19. Production for Test Period	13.7	50	215.3	3572	PSI
20. Calculated 24 Hour Rate	13.7	50	215.3	Oil Gravity – API – 60° 33.8	Casing Pressure 100 PSI

21. Was Swab or Artificial Flowing Device Used During this Test?	22. Oil Produced Prior to Test (New & Reworked Wells)	23. Injection Gas–Oil Ratio
Yes ☐ No ☐	78	3357

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

Oscar G. Martin
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified:

Date of Notification:

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle
REPRESENTATIVE OF COMPANY

Proration Specialist
TITLE

8-26-70
DATE

REMARKS

R.T. #2 @ 1778' Eff 8-21-70

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well ☐ Deepening ☐ Plug-Back ☐ Other ☐	25. Date Permit Issued
26. Notice of Intention to Drill this Well was filed in Name of	27. If Special Permit, Give Permit Number
28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well	29. Total Number of Acres in this Lease
30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced / Completed	31. Distance to Nearest Well, Same Lease & Reservoir
32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: ____ Feet From ____ Line of The ____ Line And ____ Feet From ____ Lease	
33. Elevation (DF, RKB, RT, GR, ETC)	34. Was Directional Survey Made: Yes ☐ No ☐

35. Top of Pay	36. Total Depth	37. P.B. Depth	38. Surface Casing Determined By:	Recommendation of Texas Water Development Board ☐ Field Rules ☐ Railroad Commission (Special) ☐

39. Is Well Multiple Completion? Yes ☐ No ☐	40. If Multiple Completion List All Reservoir Names (Completions in this Well)	41. Intervals Drilled By:	Rotary Tools	Cable Tools
42. Name of Drilling Contractor		43. Is Cementing Affidavit Attached? Yes ☐ No ☐		

44. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled

45. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

46. **TUBING RECORD**

Size	Depth Set	Packer Set

47. Producing Interval (this completion) indicate Depth of Perforations or Open Hole

From	To
From	To
From	To
From	To

48. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used

49. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth

REMARKS _____

MAP ID #103

API# 42-025-01558
PERMITTED FOR SWD
OIL WELL
PLUGGED

01558 (103)

0 0 0 0 7 3 0 9 0 9

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev 9/1/67

1. RRC District: 2

4. RRC Lease or Id Number: 02907

5. Well Number: 5

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records): LAURA THOMSON /5600 #4 SAND/

3. LEASE NAME: LAURA T. BARROW 'B'

6. OPERATOR: EXXON CORPORATION

10. County: BEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11. Date Drilling Permit Issued: 11-16-62

8. SURFACE LOCATION: 3750 FEET FROM E OF W LINE, AND 10185 FEET FROM NW OF SE LINE

12. Date Drilling Commenced: 11-21-62

9. SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS

13. Date Drilling Completed: 12-21-62

15. Type of Well (Oil, Gas, Dry)*: OIL

16. Type of Completion (Single, Dual, Etc.): SINGLE

17. Total Depth: 6210

14. Date Well Plugged: 11-5-76

18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19. Manner of Placement

PLUG #1	150	SACKS	TOP	10	BOTTOM	5562	TYPE CLASS H
PLUG #2		SACKS	TOP		BOTTOM		TYPE
PLUG #3		SACKS	TOP		BOTTOM		TYPE
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES ☐ NO ☒

21. How was Mud applied? —

22. Mud Weight: — LBS/GAL

23. Depth of Deepest Fresh Water: 1600 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES ☐ NO ☐

25. If NO, Explain: 2 7/8" CASING PLUGGED WITH CEMENT FROM 10' TO 5562'.

26. Name and Address of Party Plugging Well: SPARTAN WELL SERVICE, INC., BOX 1496, CORPUS CHRISTI, TEXAS 78403

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
CEMENTED TO SURFACE - 7 5/8"	506.20		502.20	
" 2 7/8"	6172.10		6168.10	
1 1/4"	3962.59		NONE	

"2 7/8" CASING CEMENTED FROM TD TO 4678' + FROM 1695' TO SURFACE.

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

BLAIR-VREELAND BOX 2603 CORPUS CHRISTI, TEXAS 78403
CARRL OIL COMPANY, 1700 GUARANTY BK. PLAZA, CORPUS CHRISTI, TEXAS 78401
MITCHELL ENERGY CORPORATION, 3900 ONE SHELL PLAZA, HOUSTON, TEXAS 77002

29. Was Notice given before Plugging to each of the above and RRC District Office? YES ☒ NO ☐ RRC

Cancel 14(B)(2) Exception

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — PRORATION SPECIALIST — 11-30-76

REPRESENTATIVE OF COMPANY — TITLE — DATE

RECEIVED R.R.C. OF TEXAS DEC - 2 1976 O & G SAN ANTONIO, TEXAS

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS 7 5/8" + 2 7/8" CASING CUT OFF 4' BELOW GROUND + CAPPED.

65-2766 7/1

000073 0910

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-68)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) [illegible] 15600 #4 SHNO	*2. RRC District
*3. Operator SAXON CORPORATION.	*4. County
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA [illegible] B 02907	*6. Well Number
*7. Location (Section, Block, and Survey) M. DE LOS SANTOS	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	11-5-76					
*20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8					
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5560					
22. Sacks of Cement Used (each plug)	150					
23. Slurry Volume Pumped (cu. ft.)	165.0					
24. Calculated Top of Plug (ft.)	TOC					
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. OF TEXAS
DEC - 2 1976
O & G
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

L052C2

26. Remarks:

Plug this by Mr. Hall - RRC Dist. #2, San Antonio.

*27. Remarks:

DEC - 8 1976

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Rodney Johnson

Signature of Cementer or Authorized Representative

Rodney Johnson Agent

Name of Person and Title (type or print)

Spartan Well Service, Inc.

Cementing Company

P. O. Box 1496

Street Address or P.O. Box

Corpus Christi, Tex. 78403

City, State Zip Code

Telephone 512 883-1836
Area Code

November 12, 1976

Date

OPERATOR

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

EXXON CORPORATION

*Operator

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

*Street Address or P.O. Box

*City, State Zip Code

*Telephone 512 884-4571
Area Code

11-30-76

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

COMMISSIONERS
BEN RAMSEY
Chairman
BYRON TUNNELL
JIM C. LANGDON
FRED OSBORNE, Secretary

ARTHUR H. BARBECK
Chief Engineer

AUSTIN, TEXAS

March 23, 1970

Humble Oil & Refining Company
Wilson Tower
Corpus Christi, Texas 78401

Gentlemen:

This will acknowledge receipt of your "Application to Dispose of Salt Water by Injection into a Porous Formation not Productive of Oil or Gas" covering the well designated thereon as follows:

RAILROAD COMMISSION DISTRICT: 2 - San Antonio

OPERATOR: Humble Oil & Refining Company

LEASE: Laura T. Barrow "B" (02907) WELL NO. 5

FIELD: Laura Thompson (5600') COUNTY Bee

Based upon our understanding of the representations made thereon and those made on any attached papers filed therewith, it is believed that the operation indicated will not cause damage of oil, gas, or fresh water resources and permission to dispose of salt water into the above named well is hereby granted; provided, however, that prior to the injection of water and for the duration of its use for injection purposes, the well be so cased and completed that water can enter no other formation than the strata encountered in said well with the depth interval from 3280 feet to 3400 feet. It is required that the subject well be equipped with an above ground bradenhead observation valve.

Any permission to inject water into this well previously granted is herewith cancelled and shall have no further force or effect.

In the event the above captioned well is presently carried on the proration schedule, you are requested to notify the Commission, in writing as to the date said well is to be removed therefrom unless this is a dual (producing well and a salt water disposal well). In which case you will be required to receive multiple completion authority if the injection string is part of a multiple completion.

Yours very truly,

Arthur H. Barbeck
Chief Engineer

By: Tom Hays
Tom Hays
Engineer

TH:mm

cc: RRC - San Antonio
Texas Water Quality Board

2-02907

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-14
Rev. 6-10-64

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION NOT PRODUCTIVE OF OIL OR GAS

1. Operator	2. Address	3. District
Humble Oil & Refining Company	Wilson Tower Corpus Christi, Texas 78401	2

4. Lease Name and Lease or Identification No.	5. Well No.	6. Field	7. County
Laura T. Barrow B #02907	5	Laura Thomson	Bee

8. Location: 7 miles NE from Papalote, Texas — Sec.-Twp-Rge or Block & Survey: M. De Los Santos Survey (A-64)

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
9. Surface Casing	7-5/8	516	125	Surface	Calculation
10. Intermediate					
11. Long String	2-7/8	6181	250	Surface *	Calculation
12. Tubing	--	--	13. Name, Model and Depth of Tubing Packing: --		

14. Depth to Top of Injection Zone	15. Depth to Bottom of Injection Zone
3280 Elm	3490 Elm

16. Is injection through Tubing, Casing or Annulus?	17. Perforations or Open Hole?	18. Is this a new well Drilled for Disposal?
Casing	Perforations	No

19. List all Cement Squeeze Operations, Giving Interval and Number Sacks Cement
Squeeze: 5562-66' w/25 sx; 5564-68' w/27 sx Sqz. 3450' & 3250' RC

20. Depth of Deepest Fresh Water Zone	21. Depth of Shallowest Zone Productive of Oil or Gas in This Field
1500'	Approximately 5000'

22. Anticipated Daily Injection Volume (bbls.)	Minimum	Maximum	23. Open or Closed System?
700	500	1400	Open

24. Is injection to be by Gravity or Pressure?	25. Approx. Pressure (Psi)	26.
Gravity	--	--

RECEIVED R.R. COMM. OF TEXAS MAR 11 1970 O.G. AUSTIN, TEXAS

27. Will it be necessary for water to be filtered or chemically treated? Yes / No	28. Is this well so cased and completed that water can enter no other formation than the above set out injection zone? Yes or No
No	Yes

29. Have notices of this application been mailed or given to all offset operators?	30. NAME AND ADDRESS OF SURFACE OWNER
	Mrs. L. T. Barrow, 3314 Chevy Chase Drive, Houston, Texas

31. Are there any other Salt Water Disposal Wells using this same Zone in this Field?	Yes or No	32. If so name one such well below
	Yes	L. T. Barrow B-10

33. Name of Operator of Disposal Well in same zone	34. Lease Name	35. Well No.
Humble Oil & Refining Company	L. T. Barrow B	10

36. List Name and Addresses of all offset Operators

Blair-Vreeland, P. O. Box 2413, Corpus Christi, Texas 78403

Carri Oil Company, P. O. Box 576, Corpus Christi, Texas 78403

Christi Mitchell and Mitchell Company, Houston Club Building, Houston, Texas 77001

* 2-7/8" casing cemented from total depth back to 4678' and from 1695' to surface.

HUMBLE OIL & REFINING COMPANY
Name of Operator

Log

State of _____)
County of _____)

Signature of Affiant R. J. LEE

Before me, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Subscribed and sworn to before me this 5th day of March, 1970.

SEAL

My commission expires _____

Notary Public in and for _____ County, _____

(See Reverse Side for Instructions)

D-4

0 5 3 6 1 7 8 1

TEXAS WATER QUALITY BOARD

J. E. PEARY, M.D.
BEN RAMSEY
J. R. SINGLETON
HUGH C. YANTIS, JR.
EXECUTIVE DIRECTOR

1108 LAVACA ST. 475-2201
AUSTIN, TEXAS 78701

March 11, 1970

RE: Application to Inject Salt Water
L. T. Barrow "B" Well No. 5
M. De Los Santos Survey, A-64
Bee County, Texas

Humble Oil and Refining Company
Wilson Tower
Corpus Christi, Texas 78401

Attention: Mr. Grady Coyle

Gentlemen:

We have reviewed your proposal to inject 500 to 1,400 barrels of water per day through 2 7/8 inch casing into the subsurface depth interval 3,280 to 3,490 feet. This program offers no predictable hazard to usable-water resources provided all bore holes penetrating the injection interval in the area of this well are adequately cased and cemented, or plugged below all strata containing usable groundwater and provided periodic casing pressure tests are performed.

This decision is based on available data indicating that groundwater considered to be of usable quality occurs to a subsurface depth of approximately 1,600 feet in the area of this well and on information submitted in the application. The above-named well is completed with 7 5/8 inch O.D. surface casing set at 510 feet and cement circulated to the surface; and 2 7/8 inch O.D. long string set at 6,181 feet with top of cement calculated at 4,673 feet and cemented from 1,695 feet to the surface. Also, cement squeeze operations will be performed at 3,250 and 3,450 feet.

Very truly yours,

[illegible], M.D., Director
Control Operations

[illegible]
cc & encl: Railroad Commission of Texas
cc: [illegible] 11

D-4

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-14
Rev. 6-10-61

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION NOT PRODUCTIVE OF OIL OR GAS

1. Operator: Humble Oil & Refining Company		2. Address: Wilson Tower, Corpus Christi, Texas 78401	3. District: 2
4. Lease Name and Lease or Identification No.: Laura T. Barrow B 402907	5. Well No.: 5	6. Field: Laura Thomson	7. County: Bee
8. Location: 7 miles NE from Papalote, Texas		Sec.-Twp-Rge or Block & Survey: M. De Los Santos Survey (A-64)	

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
9. Surface Casing	7-5/8	516	125	Surface	Calculation
10. Intermediate					
11. Long String	2-7/8	6181	250	Surface *	Calculation
12. Tubing	--	--	13. Name, Model and Depth of Tubing Packing: --		

14. Depth to Top of Injection Zone: 3280 Elm		15. Depth to Bottom of Injection Zone: 3490 Elm	
16. Is Injection through Tubing, Casing or Annulus? Casing	17. Perforations or Open Hole? Perforations		18. Is this a new well Drilled for Disposal? No
19. List all Cement Squeeze Operations, Giving Interval and Number Sacks Cement: Squeeze: 5562-66' w/25 sx; 5564-68' w/27 sx			
20. Depth of Deepest Fresh Water Zone: ~~1300'~~ 1600' WCB 3		21. Depth of Shallowest Zone Productive of Oil or Gas in This Field: Approximately 5000'	
22. Anticipated Daily Injection Volume (bbls.): 700	Minimum: 500	Maximum: 1400	23. Open or Closed System? Open
24. Is Injection to be by Gravity or Pressure? Gravity	25. Approx. Pressure (Psi): --		26. --
27. Will it be necessary for water to be filtered or chemically treated? No		28. Is this well so cased and completed that water can enter no other formation than the above set out injection zone? Yes	
29. Have notices of this application been mailed or given to all offset operators? Yes	30. NAME AND ADDRESS OF SURFACE OWNER: Mrs. L. T. Barrow, 3314 Chevy Chase Drive, Houston, Texas		
31. Are there any other Salt Water Disposal Wells using this same Zone in this Field? Yes	32. If so name one such well below: L. T. Barrow B-10		
33. Name of Operator of Disposal Well in same zone: Humble Oil & Refining Company	34. Lease Name: L. T. Barrow B		35. Well No.: 10

36. List Name and Addresses of all offset Operators

Blair-Vreeland, P. O. Box 2413, Corpus Christi, Texas 78403

Carrl Oil Company, P. O. Box 576, Corpus Christi, Texas 78403

Christi Mitchell and Mitchell Company, Houston Club Building, Houston, Texas 77001

* 2-7/8" casing cemented from total depth back to 4678' and from 1695' to surface.

HUMBLE OIL & REFINING COMPANY
37. OPERATOR

Signature of Affiant R. J. LEE

State of _____)
County of _____)

Before me, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Subscribed and sworn to before me this 5th day of March, 1970.

SEAL

My commission expires _____

Notary Public in and for _____
County, _____

(See Reverse Side for Instructions)

0054 1783

HUMBLE OIL & REFINING COMPANY

CORPUS CHRISTI, TEXAS 78401

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

WILSON TOWER

Railroad Commission of Texas
Oil and Gas Division
P. O. Box EE, Capitol Station
Austin, Texas 78711

Gentlemen:

The undersigned hereby waives objection to Humble Oil & Refining Company's proposal to use its Laura T. Barrow "B" Well No. 5, Laura Thomson Field, Bee County, Texas as a salt water disposal well.

(Proposed injection zone 3280'-3490'.)

GEORGE MITCHELL & ASSOCIATES

By S T Walker

S. T. Walker, Jr.
Division Production Manager

DATE March 12, 1970

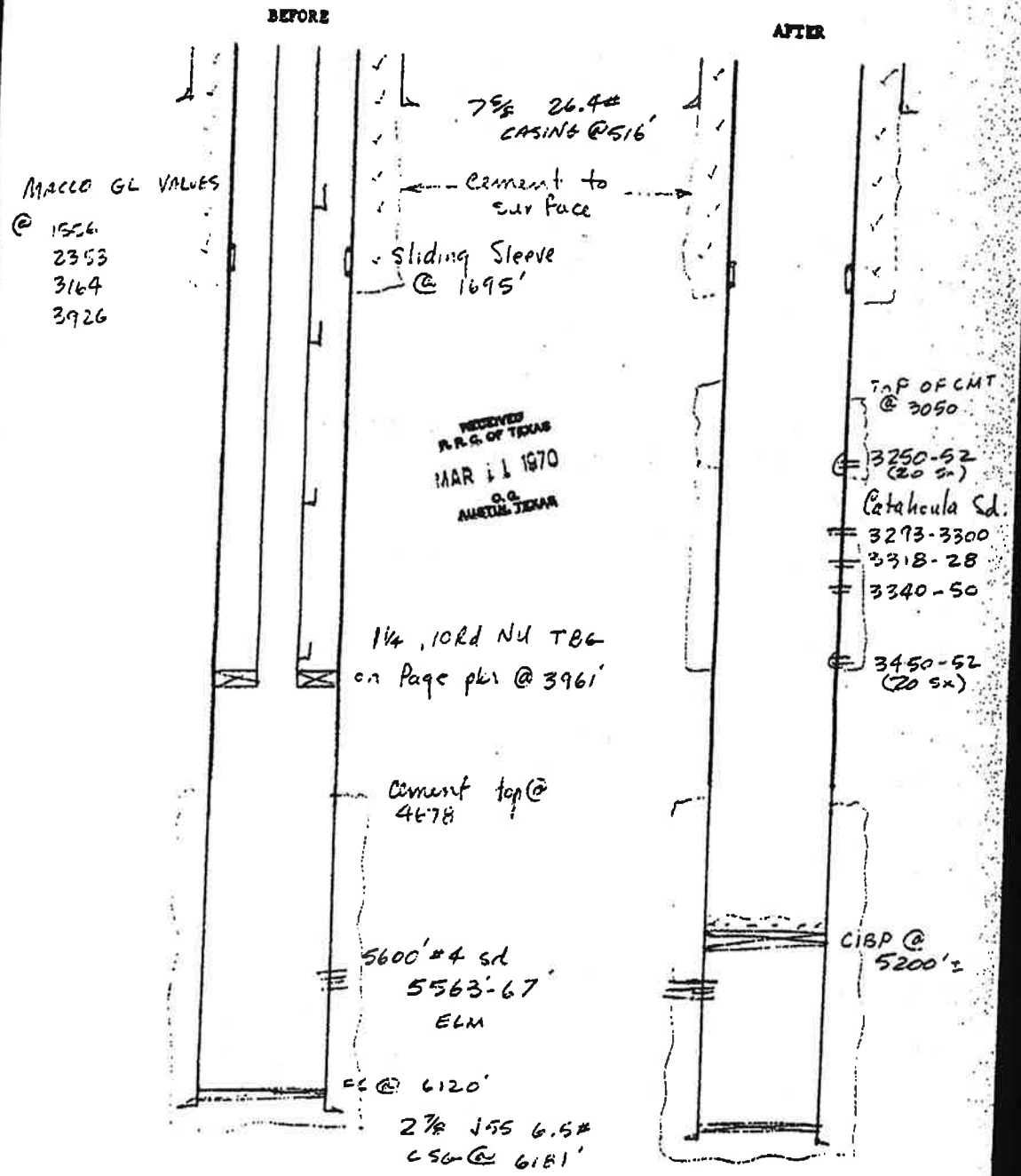
RECEIVED
R. R. C. OF TEXAS
MAR 1 , 1970
O. G.
AUSTIN, TEXAS

STD-57

2-029 01

Lease & Well No. Laura T. Barrow B-5 Field Laura Thomson

Date 5 March 70



RECEIVED R.R.C. OF TEXAS MAR 11 1970 O.G. AUSTIN, TEXAS

0034 1787

HUMBLE OIL & REFINING COMPANY

CORPUS CHRISTI, TEXAS 78401

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

WILSON TOWER

Blair-Vreeland
P. O. Box 2413
Corpus Christi, Texas 78403

Carrl Oil Company
P. O. Box 576
Corpus Christi, Texas 78043

Christi Mitchell & Mitchell Co.
Houston Club Building
Houston, Texas 77001

RECEIVED
R.R.C. OF TEXAS
MAR 11 1970
O.G.
AUSTIN, TEXAS

Gentlemen:

Humble Oil & Refining Company proposes to use its Laura T. Barrow "B" Well No. 5, Laura Thomson Field, Bee County, Texas as a salt water disposal well. Salt water would be injected into a formation not productive of oil or gas from 3280-3490 ELM. This well is presently a single oil well in the 5600' No. 4 sand and is completed with one string of 2-7/8" casing as a tubingless completion. We propose to squeeze cement the perforations in the 5600' No. 4 sand from 5562-5568' with 27 sacks of cement and reperforate the well from 3293-3300, 3318-3328, and 3340-3350 for salt water disposal proposes.

We are attaching a copy of our Application to Dispose of Salt Water which we plan to submit to the Railroad Commission within the next few days. If you have no objection to our proposal, we would appreciate your signing the attached waiver and returning two copies to Humble Oil & Refining Company, Wilson Tower, Corpus Christi, Texas, Attention: Grady Coyle.

Yours Very Truly,

Grady Coyle

GRADY COYLE
Proration Specialist

GC/dmc
Attachments
cc: Railroad Commission of Texas
Mr. R. J. Lee

0034 1786

HUMBLE OIL & REFINING COMPANY

CORPUS CHRISTI, TEXAS 78401

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

March 5, 1970

WILSON TOWER

RECEIVED
R. R. C. OF TEXAS
MAR 11 1970
O. G.
AUSTIN, TEXAS

Mr. L. T. Barrow
3314 Chevy Chase Drive
Houston, Texas

Dear Sir:

This is to notify you as a land owner of our lease styled, Laura T. Barrow "B" that Humble Oil & Refining Company is requesting permission from the Railroad Commission of Texas for subsurface disposal of salt water produced from leases in the Laura Thomson Field, M. De Los Santos Survey (A-64), Bee County, Texas.

This well is presently a shut-in oil well completed in the Laura Thomson (5600' No. 4 sand) Field. We propose to inject salt water into this well at a depth of 3280-3490' in order to improve our salt water disposal facilities in the field. If you have no objections to our proposal, will you and your wife please sign this letter and return it to this office for further handling with the Railroad Commission of Texas. A copy is attached for your file.

Yours Very Truly,

GRADY COYLE
Proration Specialist

GC/dmc
Attachments

Approved:_____
Mrs. Laura T. Barrow

Approved:_____
L. T. Barrow

Date:_____

13

FORM W-1
(Rev. 12-18-69)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

API Well No. 42

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [ ] DRILL [ ] DEEPEN [X] PLUG BACK [ ] OTHER (Specify)

1. Operator
HUMBLE OIL & REFINING COMPANY

2. Address (Including City and Zip Code)
WILSON TOWER
CORPUS CHRISTI, TEXAS 78401

3. Is Form 7 in Exact Operator Name Filed?
YES [X] NO [ ]

4. Lease Name
LAURA T. BARROW "B"

5. Location (Sec., Blk., Survey)
M. DE LOS SANTOS (A-64)

6. This well is to be located 7 miles NE
Direction from PAPALOTE, TEXAS
Nearest Post Office or Town.

7. RRC District
TWO

8. County
BEE

9. Well Number
5

10. Number of Acres in Lease
6,128

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.)
OVER 467

00347

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (if applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested.	
										Oil.	Gas
LAURA THOMSON (CATAHOULA)	3300		467 1200	40	40	No	1320	Yes	SWD		

RECEIVED MAR 10 1970 RAILROAD COMMISSION OF TEXAS

RECEIVED MAR 10 1970 OIL & GAS DIVISION SAN ANTONIO, TEXAS

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE
I declare under penalties prescribed in Article 6038c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS:
THIS IS A SHUT-IN WELL WHICH WE DESIRE TO CONVERT INTO A SWD WELL.

Signature Grady Coyle GRADY COYLE

Title PRORATION SPECIALIST

Date MARCH 6, 1970

Telephone: Area Code 512 884-4571

- OVER -

2-02907

MAP ID #104

API# 42-025-32025
DRY HOLE

0 0 0 0 4 1 0 7 5 3

(104)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42-025-32025 (if available)

1. RRC District: 2

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number:

2. FIELD NAME (as per RRC Records): WILDCAT

3. Lease Name: LAURA T. Barrow "B"

5. Well Number: 29

6. OPERATOR: EXXON CORPORATION

6a. Original Form W-1 Filed in Name of:

10. County: FEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS

6b. Any Subsequent W-1's Filed in Name of: 78476

11. Date Drilling Permit Issued: 7-2-83

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3675 Feet From S W Line and 9275 Feet From SE Line of the LAURA T. BARROW B Lease

12. Permit Number: 202383

9a. SECTION, BLOCK AND SURVEY: MIGUEL DE LOS SANTOS A-64

9b. Distance and Direction From Nearest Town in this County: 11 MILES E OF SKIDMORE

13. Date Drilling Commenced: 10-8-83

16. Type Well (Oil, Gas, Dry): DRY

Total Depth: 5700

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil-O Gas-G	WELL #

14. Date Drilling Completed: 10-25-83

18. If Gas, Amt. of Cond. in Hand at time of Plugging:

15. Date Well Plugged: 10-17-84

CEMENTING TO PLUG AND ABANDON DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	10-17	10-17-83		10-17				
20. Size of Hole or Pipe in which Plug Placed (inches)	7 7/8	8 5/8		8 5/8				
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5700	1585		24				
*22. Sacks of Cement Used (each plug)	120	70		5				
*23. Slurry Volume Pumped (cu. ft.)								
*24. Calculated Top of Plug (ft.)	5400	1450		10				
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. # /Gal.	16.4	16.4		16.4				
*27. Type Cement	H+.5%D9	H Neat		1				

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. # /FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	1509.32	1509.32	12 1/4
				7 7/8

29. Was any Non-Drillable Material (other than Casing) Left in This Well: Yes / No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

WATER BOARD LETTER DATED 7-25-83

Depth 1400 ft.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
1509	5700	13(A) Exception Dated	
		Surface Casing	ft.
		D.V. @	ft.

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

[signature]
Signature of Cementer or Authorized Representative

BJ-Hughes, Services
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Return to Central Records

[signature] HELEN CASNER — REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST — TITLE

APR 9 1984 — DATE

Phone 512/887-2228 — A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

025-32025

MAPPING

RECEIVED RAIL OF TEXAS APR 13 1984

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission — [X] Yes [ ] No

32. How was Mud Applied? PUMPED THRU TBG

33. Mud Weight 9.5 LBS/GAL

34. Total Depth 5700

Depth of Deepest Fresh Water 1400

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well — Date RRC District Office was notified of plugging

B. J. HUGHES INC BOX 2130 LUBBOCK TX 79233

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[X] Log Attached [ ] Log released to _____ Date _____

Type Logs

[X] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-4 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS

EXXON COMPANY, U.S.A.
WILSON TOWER · CORPUS CHRISTI, TEXAS 78476

DRILLER'S LOG

FROM	TO	FORMATION
0	265	Caliche
265	3601	Sd & Sh
3601	3762	Sd
3762	5700	Sd & Sh

I, HELEN CASNER, REPRESENTING EXXON CORPORATION, DO CERTIFY THAT THE FOREGOING HAS BEEN EXTRACTED FROM THE DAILY DRILLERS REPORT OF THE Laura T. Borden "D" #29 WELL IN Lee COUNTY, TEXAS AND THAT THE SAME IS A TRUE AND CORRECT STATEMENT OF THE INFORMATION REVEALED IN THE REPORT, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

EXXON CORPORATION

DATE: [illegible] 1984

BY: Helen Casner
HELEN CASNER

RECEIVED
STATE OF TEXAS
APR 13 1984

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev. 5-1-80)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): WILDCAT	*2. RRC District: 2
*3. Operator: Exxon Company, USA	*4. County: San Patricio
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Barrow, Chara T. "E"	*6. Well Number: B-29
*7. Location (Section, Block, and Survey)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date	10/10/83					
*9. (a) Size of Drill Bit (inches)	12¼					
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)	8 5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1532					
13. Type API Class Cement & Amount of Additives Used (Use Item 27 if more space is needed. Use "Remarks" on reverse side.)	A, 8% Gel, 5% A-5					
(b) In Second Slurry	A, 2% A-7					
(c) In Third Slurry	A, 2% A-7					
14. Sacks of Cement Used (a) In First (Lead) or Only Slurry	430					
(b) In Second Slurry	250					
(c) In Third Slurry	50 Top Out					
(d) Total Sacks of Cement Used	750					
15. Slurry Volume per Sack of Cement (cu.ft./sack) (a) In First (Lead) or Only Slurry	1.92					
(b) In Second Slurry	1.17					
(c) In Third Slurry	1.17					
16. Volume of Slurry Pumped (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	825.6					
(b) In Second Slurry	292.5					
(c) In Third Slurry	58.5					
(d) Total Slurry Volume Pumped (cu.ft.)	1176.6					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	1500'					
18. Was cement circulated to ground surface (or bottom of cellar, outside casing)? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates Items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

FORM W-1
1/1/81

API Well No. 42 [illegible]
Instruction (3a & b) on back side

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Directional Well / Sidetrack

Amended Permit (explain in Remarks)

RRC Lease Number, if previously assigned: 202383

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: X DRILL | DEEPEN (Below Casing) | DEEPEN (Within Casing) | PLUG BACK | RE-ENTER

7 RRC District: 2

8 County: Bee

1 Operator: EXXON CORPORATION 51091 11841

2 Address (including City and Zip Code): Wilson Tower, Corpus Christi, TX 78476

4a Lease Name (32 Spaces Maximum): Laura T. Barrow "B"

4b RRC Lease or ID No. (if assigned):

9 Well Number: 129

5 Location (Sec., Blk., Survey): Miguel De Los Santos (A-63)

10 Number of Contiguous Acres in Lease or Pooled Unit: 637.5

6 This well is to be located 11.1 miles E Direction from Skidmore, TX Nearest Post Office or Town.

11 Distance from Proposed Location to Nearest Lease or Unit Line: 3675

3 Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES X NO (Instruction (2) on back side.)

12 Total Depth: 6100

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13 FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14 Completion Depth	15 All Prior Rule 37 Exception Case Numbers for this wellbore. If none, State None.	16 Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17 Applicable Field Rules Density Pattern. If no Rules, State 40 (acres)	18 Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19 Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20 Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21 Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22 Oil, Gas, or other Type Well (Specify)	23 Number of completed, permitted or applied for, locations on this lease in same reservoir for which this permit is sought? Oil.	Gas
5228516 6 Laura Thomson (4850)	4853	---	467-1200	40	40	NO	4450	Regular Rule 37 X	Gas	---	?
Wildcat Above	6100	---	467-1200	40	40	NO	---	Regular Rule 37 X	Oil or Gas	---	---
00004801		Code	1200					Regular Rule 37			
								Regular Rule 37			

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED LINES

A. Lease Lines: 3675' from SW line & 9275' from SE line

B. Survey Lines: 3675' from SW line & 7300' from E line

25 Is wellbore subject to SWR 36? Yes No X

(If subject to SWR 36, has Form H-9 been filed? If no, attach explanation)

26 Is any part of proposed lease use of this well in any presently created pool not listed on Column 1, item 6 a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see Instruction 7a. Yes No X

27 Is this a pooled unit? YES | Attach P-12, certificate(s), & list of included zones. NO X

28 Substandard Acreage YES (Attach W-1A) NO X

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report; that this report was prepared by me or under my supervision and direction; and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: G. F. Presson

Title: G. F. Presson, Proration Specialist

Date: July 12, 1983

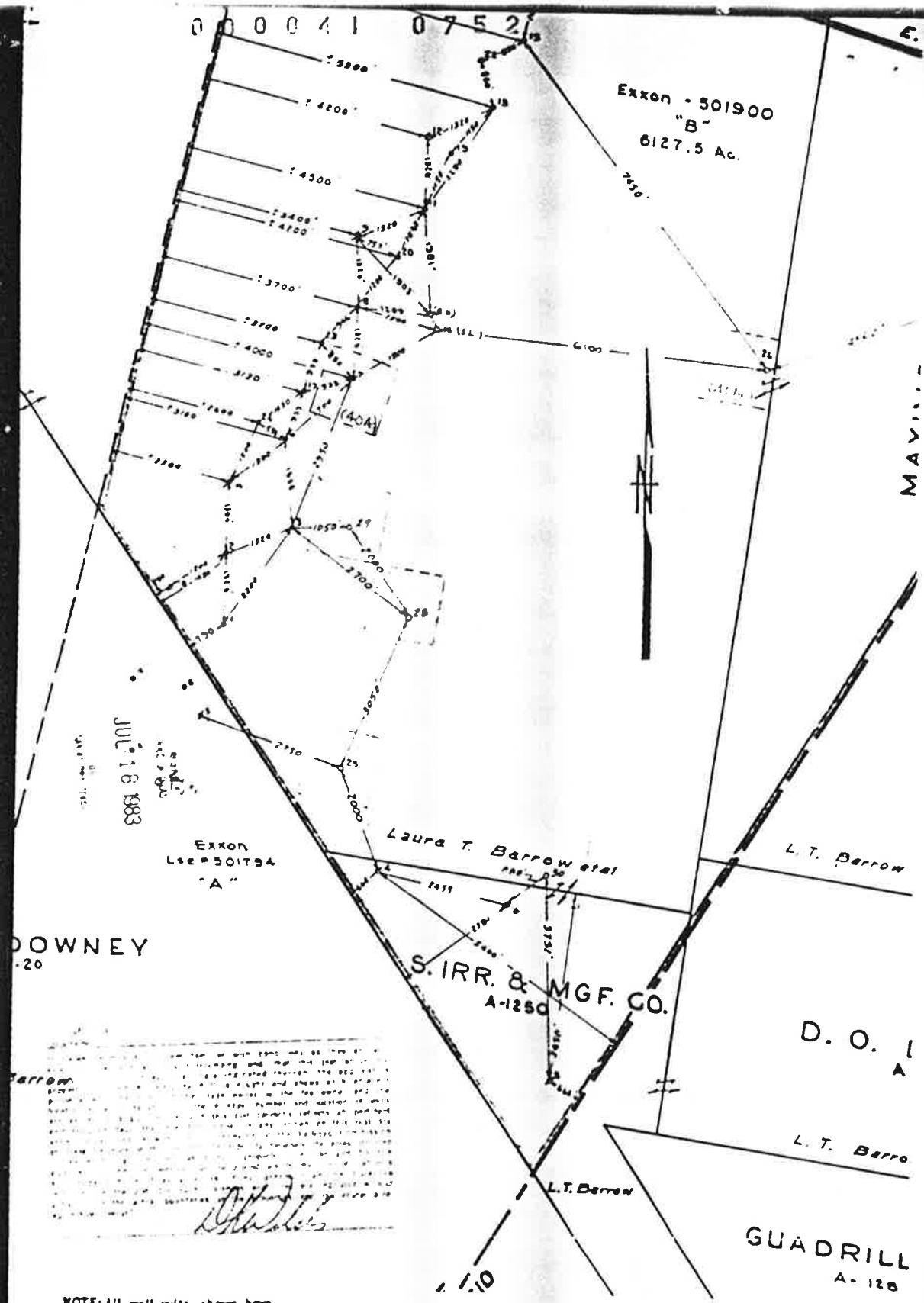
Telephone Area Code: 512 887-2228

RECEIVED JUL 18 1983

REMARKS

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

023-32027



NOTE: All well units shown have 40 Acres unless otherwise noted.

Application for Location Well No. 29
Located 3675 ft. from SW line
and 9275 ft. from SE line of Lease
Located 3675 ft. from SW line
and 7300 ft. from E line of Survey
Distances are perpendicular to Lease/Survey

EXXON CO. U.S.A.–S.T.D.–R.R. COMM.

LAURA T. BARROW "B" LEASE NO. 501900
LAURA THOMSON FIELD BEE CO.
MIGUEL DE LOS SANTOS (A-64) SURVEY W 27.5 AC.
SCALE: 1" = 2000' DATE: 7/12/83

MAP ID #105

API# 42-025-32847
GAS WELL
PLUGGED

105

Received
RRC of Texas
MAR 21 2011
Oil & Gas Division
San Antonio, Texas

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

API No. (if available)	1. RRC District
42- 025 32847	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 166405

2. FIELD NAME (as per RRC records)	3. Lease Name	5. Well Number
Laura Thompson (4850)	Thompson-Barrow Corp. "C"	7
6. OPERATOR	**6a. Original Form W-1 filed in name of:**	**10. County**
C & E Operating, Inc.		Bee
7. ADDRESS 345 Commerce Green Blvd. Sugar Land, Texas 77498	**6b. Any subsequent W-1's filed in name of:**	**11. Date Drilling Permit Issued** 09/22/97
8. Location of well, relative to nearest lease boundaries of lease on which this well is located 10968 feet from north line and 10339 feet from east line of the Thomson-Barrow Corp. C lease		**12. Permit Number** 467829
9a. SECTION, BLOCK and SURVEY Maximo Gomez A-25	**9b. Distance and direction from nearest town in this county** 8.7 miles east from Skidmore	**13. Date Drilling Commenced** ~~11/04/97~~ 9-30-97

16. Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no.'s	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14. Date Drilling Completed
gas	5959'					12/11/97
18. If gas, amt. of cond. on hand at time of plugging						**15. Date Well Plugged** 12/13/10

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date 2010	12/13	12/13	12/13					
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4900	1150	14					
*22. Sacks of Cement Used (each plug)	25	35	5					
*23. Slurry Volume Pumped (cu. ft.)	29.5	41.3	5.9					
*24 Calculated Top of Plug (ft.)	4750	800	4					
25. Measured Top of Plug (if tagged) (ft.)		800						
*26. Slurry Wt. #/Gal.	15.6	15.6	15.6					
*27. Type Cement	H	H	H					

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.#/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	613	609	12¼
4½	10.5	5102	5098	7 7/8

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	4919	TO	4925	FROM	
FROM	4944	TO	4946	FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO
FROM		TO		FROM	TO

RECEIVED
CENTRAL RECORDS
AUG 30 2011
AUSTIN, TEXAS

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Signature of Cementer or Authorized Representative

York Cement & Acid
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Fleming — REPRESENTATIVE OF COMPANY
Office Manager — TITLE
03/10/11 — DATE
PHONE 361 741-3600 — A/C NUMBER

Chris 4/6/11
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

APPROVED 197

31. Was well filled with mud-laden fluid, according to the regulations of the Railroad Commission? ☒ Yes ☐ No	32. How was mud applied? Circulated	33. Mud Weight 9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R.		35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☒ Yes ☐ No
5959 Depth of Deepest Fresh Water 1100	TOP	BOTTOM	36. If No, Explain
	0	850	

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well
York Cmt & Acid 6511 FM 1464 PMB6 Richmond TX 77407

Date RRC District Office notified of plugging 12/12/10

38. Name(s) and address(es) of surface owners of well site
Thomson-Barrow Corp.
5847 San Felipe
Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *
File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

RECEIVED R.R.C. OF TEXAS JAN 07 1998 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Type or print only

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

483-047

API No. 42- 025-32847

7. RRC District No. 2

8. RRC Gas ID No. 166405

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4850)

2. LEASE NAME: Thomson-Barrow Corp.

9. Well No. 7

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.

RRC Operator No. 120079

10. County of well site: Bee

4. ADDRESS: 13333 Southwest Freeway, Suite 105 Sugar Land, Texas 77478

11. Purpose of filing
- Initial Potential [*]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): Maximo Gomez A-25

5b. Distance and direction to nearest town in this county: 8.7 miles east from skidmore

6. If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13. Pipe Line Connection: NGPL

14. Completion or recompletion date: 12/11/97

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [X] No

16. Type of Electric or other Log Run: Induction

RECEIVED R.R.C. OF TEXAS JAN 07 1998 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Section I — GAS MEASUREMENT DATA

Date of Test: 12/11/97

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 119 MCF

Run No.	Line Size	Orif. or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		24/64	3.4	265		80.0	0.9813	1.0084	1.0193	909
2		18/64	1.885	390		80.0	0.9813	1.0084	1.0287	748
3		16/64	1.47	440		80.0	0.9813	1.0084	1.0324	661
4		14/64	1.116	465		80.0	0.9813	1.0084	1.0343	531

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.590	Deg. API	CF/Bbl	G_{mix} = 0.590	124 °F	173 °F @ 4922 (Depth)

$D_{eff}^{8/3}$ = 6.307

$\sqrt{T_f} = \sqrt{586.500}$ = 24.218

$\sqrt{GL} = \sqrt{2903.980}$ = 53.889

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 291.176

$\sqrt{GL}$ = 0.185

Return to Records Retention

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	P_f^2 (Thousands)	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			835	75.0	697				
1	60	24/64	265	80.0	70	168.2	28.3	313.9	0.8442
2	60	18/64	390	80.0	152	138.4	19.2	413.8	0.9424
3	60	16/64	440	80.0	194	122.3	15.0	456.7	0.9635
4	60	14/64	465	80.0	216	98.3	9.7	475.3	0.9784

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0932	1.0998	1.1080	925	855.6	
1	0.9243	0.0858	1.0668	1.0959	344	118.3	737.3
2	0.9715	0.0902	1.0738	1.1017	456	207.9	647.8
3	0.9818	0.0911	1.0766	1.1031	504	253.8	601.8
4	0.9892	0.0918	1.0780	1.1041	525	275.3	580.3

Angle of Slope
θ 45.00
n 1.0000

Absolute Open Flow
1055 ..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature, packer depth, diameter and length of flow string were furnished by the operator of the well.

RECORD VERIFICATION

Signature: Well Tester — Target Well Services, Inc. (Name of Company) — MAR 27 1998 (RRC Representative)

OPERATOR'S CERTIFICATION. I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terrell L. Boesing — President (Title) — 1/5/98 (Date) — Tel: 281/ 265-6500 (A/C ... Number)

Signature, Operator's representative

MAPPING

PRODUCTION ALLOCATION 2B

JAN 15 1998

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 9/22/97 — PERMIT NO. 467829
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 3

21. Total number of acres in this lease: 16,693

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 11/4/97 — Completed 12/11/97

23. Distance to nearest well, Same Lease & Reservoir: 4440

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 10,968 Feet From North Line and 10,339 Feet from East Line of the Thomson - Barrow Corp. Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 78.4'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: 4919' — 28. Total Depth: 5959' — 29. P. B. Depth: 5057'

30. Surface Casing Determined by: Field Rules [ ] — Recommendation of T.D.W.R. Railroad Commission (Special) [XX] — Dt. of Letter 9/22/97

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools XX — Cable Tools

34. Name of Drilling Contractor: Corps Christi Drilling

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
4 1/2	10.5	5101	1722	585 sx A & H	7 7/8	surface	1036
8 5/8	24	614	-	305 sx A	12 1/4	surface	548

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	4838'	4838'

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	4919	To	4925
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4919-4925	Perf 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Frio	3430		
Vicksburg	5915		

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4850)	2. LEASE NAME: Thomson-Barrow Corp. C
3. OPERATOR: C & E Operating, Inc.	
4. ADDRESS: 13333 Southwest Freeway, Suite 105 Sugar Land, Texas 77478	
5. LOCATION (Section, Block, and Survey): Maximo Gomez A-25	
6. RRC District: 02	
7. RRC Lease Number. (Oil completions only)	
8. Well Number: 7	
9. RRC Identification Number (Gas completions only): 166405	
10. County: Bee	

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
499	499	1/4	0.43	2.15	2.15
620	121	1/4	0.43	0.52	2.67
1615	995	1/4	0.43	4.28	6.95
2615	1000	1/2	0.87	8.70	15.65
3610	995	1/2	0.87	8.66	24.31
4610	1000	1/2	0.87	8.70	33.01
5526	916	3/4	1.31	12.00	45.01
5959	433	3/4	1.31	5.67	50.68

RECEIVED
R.R.C. OF TEXAS
JAN 07 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 5959 feet = 50.68 feet.

*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 4210 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Robert R. Kullin
Signature of Authorized Representative

Robert R. Kullin - President
Name of Person and Title (type or print)

Corpus Christi Drilling Company
Name of Company

Telephone: 512 (Area Code) 991-8400

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Terry L. Boening
Signature of Authorized Representative

Terry L. Boening/ President
Name of Person and Title (type or print)

C & E Operating, Inc.
Operator

Telephone: 281 (Area Code) 265-6500

Railroad Commission Use Only:

Approved By: Kenneth Schneider Title: Geol Date: 1-7-98

* Designates items certified by company that conducted the inclination surveys.

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5 Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating , Inc.	120079	02	Bee

5 Field Name (Wildcat or exactly as shown on RRC records)	6 API No	7 Drilling Permit No
Laura Thomson (4850)	42- 025-32847	467829

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
Thomson-Barrow Corp.		164105	#C-7

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date						11/15/97	11/15/97
13 •Drilled hole size						7 7/8	7 7/8
•Est % wash or hole enlargement						15	15
14 Size of casing (in O D)						4 1/2	4 1/2
15 Top of liner (ft)							
16 Setting depth (ft)						1722	5101
17 Number of centralizers used						9	8
18 Hrs waiting on cement before drill-out						-	-
1st Slurry	19 API cement used No of sacks ▶					250	75
	Class ▶					A	H
	Additives ▶					Poz,Gel Salt	Poz,Gel Salt,R-3
2nd Slurry	No of sacks ▶					95	165
	Class ▶					A	H
	Additives ▶					CaCl2	Salt,FL-25, ASA-301
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶					557	167
	Height (ft) ▶					2452	734
2nd	Volume (cu ft) ▶					114	198
	Height (ft) ▶					500	869
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft.) ▶					671	365
	Height (ft) ▶					2952	1603
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?						Yes	

RECEIVED
R.R.C. OF TEXAS
JAN 07 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

R.L.Schul, Service Supervisor — Name and title of cementer's representative

BJ Services Company — Cementing Company

R L Schul — Signature

411 Hartman Road — Address

Victoria,TX 77905 — City, State, Zip Code

512-575-6446 — Tel.: Area Code Number

11/15/97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative

President — Title

Terry L. Boening — Signature

13333 S.W. Frwy, Suite 105 Sugar Land, TX 77478 — Address, City, State, Zip Code

281/ 265-6500 — Tel.: Area Code Number

1 5 98 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form **W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or ors can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

Form W-15
Cementing Report
Rev 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)	**6 API No**		**7 Drilling Permit No**
Laura Thomson (4850)	42- 025-32847		467829
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Thomson-Barrow Corp.		166405	#C-7

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		11/05/97					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		25					
14 Size of casing (in O D)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		614					
17 Number of centralizers used		6					
18 Hrs waiting on cement before drill-out		18					
1st Slurry	19 API cement used No of sacks ▶	195					
	Class ▶	A					
	Additives ▶	Salt					
2nd Slurry	No of sacks ▶	110					
	Class ▶	A					
	Additives ▶	CaCl2					
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶	408					
	Height (ft) ▶	993					
2nd	Volume (cu ft) ▶	140					
	Height (ft) ▶	340					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶	548					
	Height (ft) ▶	1333					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

T.N.R.C.C. LETTER DATED 9-24-97
Depth 1650, 1100 ft.
13(A) Exception Dated 9-24-97
Surface Casing 600' ft.
D.V. @ ft.

RECEIVED
R.R.C. OF TEXAS
JAN 07 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct and complete, to the best of my knowledge. This certification covers cementing data only.

James Tuttle, -Service Supervisor — Name and title of cementer's representative
BJ Services Company — Cementing Company
Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
512/575-6446 — Tel.: Area Code Number
11/05/97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Terry L. Boening — Signature

13333 S.W. Frwy, #105 Sugar Land, Tx 77478 — Address
281 265-6500 — Tel.: Area Code Number
1 5 98 — Date: mo. day yr.

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To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Form W-1
Rev 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P O Box 12967
Austin, Texas 78711-2967

143

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office. ▶ Read Instructions on Back

* Expedite *

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32847
▶ Permit No. 467829
▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.
9-19-97

2. Address (including city and zip code):
13333 Southwest Freeway
Suite 105
Sugar Land, Texas 77478
953535

3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
6. Lease Name (32 spaces maximum): THomson-Barrow Corp. C
7. RRC Lease/ID No.:
8. Well No.: # 7
9. Total Depth: 6000'

10. Location
• Section _____ Block _____ Survey Maximo Gomez Grant Abstract No. A- 25
• This well is to be located 8.7 miles in a east direction from Skidmore, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line 4210 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract 16693 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Laura Thomson (4850) 52285 166	4850	467/1200	40	40	No	4440	O/G	3	3
Wildcat (Above 6000') 4001	6000'	467/1200	40	40	No	NA	O/G	1	1
		Code A1600							

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 10968' FNL & 10339' FEL
• Survey/Section 577' FWL & 4571' FSL

Code 6000

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [X] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening
Signature

Terry L. Boening
Name and title of operator's representative

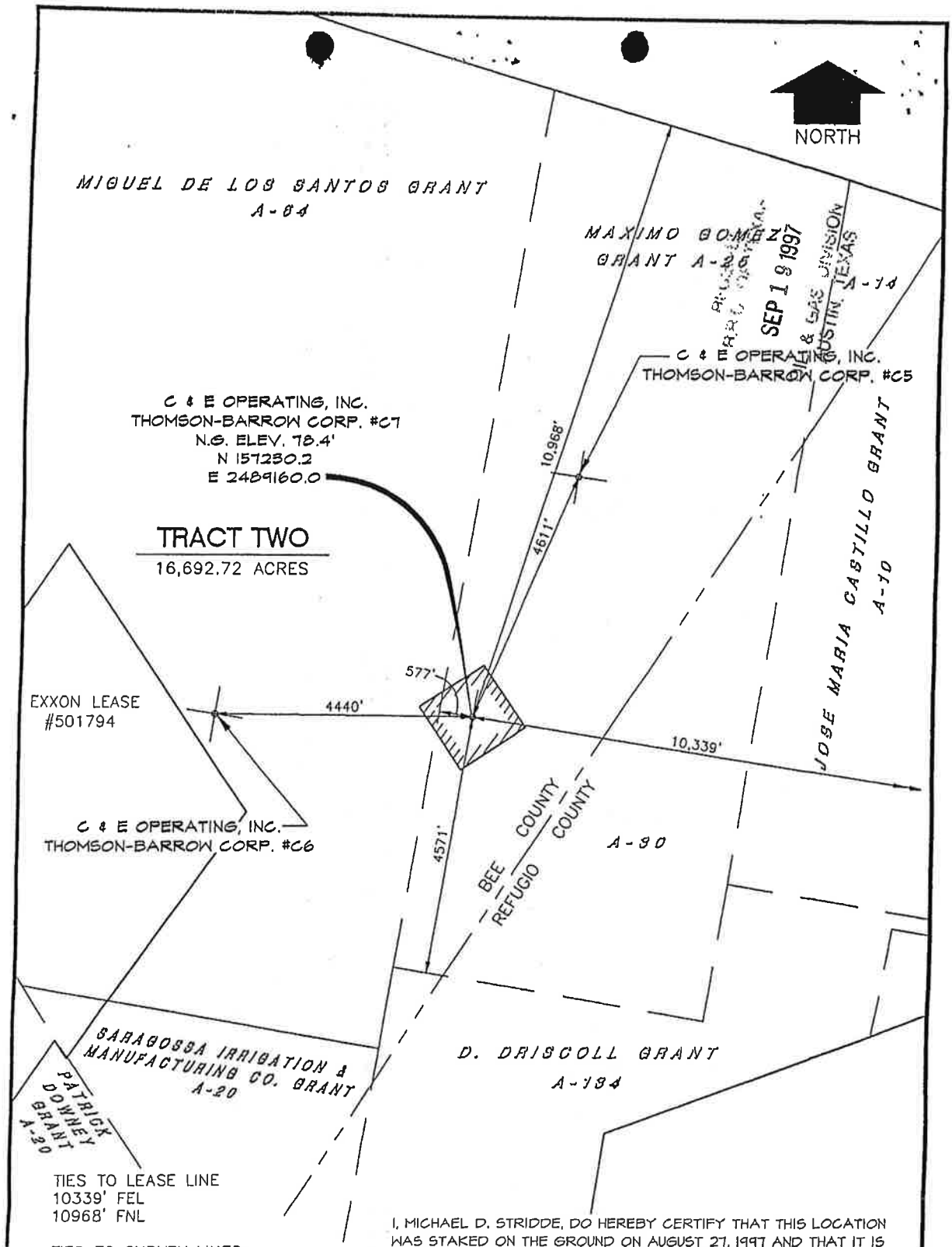
Date: 9 mo. 18 day 97 yr. Tel.: 281/ 265-6500 Area Code Number

• RRC Use Only •

200981 SEP 1997
150 App 50 Exp

467829

42-025-32847



TIES TO LEASE LINE
10339' FEL
10968' FNL

TIES TO SURVEY LINES
577' FWL
4571' FSL

DISTANCE FROM NEAREST TOWN
9.2 MILES W OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON AUGUST 27, 1997 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

Michael D. Stridde 9-4-97

REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C7
MAXIMO GOMEZ GRANT, A-25
BEE COUNTY, TEXAS

DWG No :	9773-501
SCALE :	1" = 2000'
DATE :	9/97
DWN BY :	JT

GOVIND ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (512)289-1385

MAP ID #106

API# 42-025-33007
DRY HOLE

(106)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. 42 025 33007 (if available)

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number:

2. FIELD NAME (as per RRC Records): Wildcat

3. Lease Name: Thompson-Barrow Corp. C

5. Well Number: 20

6. OPERATOR: C & E Operating, Inc.

6a. Original Form W-1 Filed in Name of:

10. County: Bee

7. ADDRESS: 345 Commerce Green Blvd. Sugar Land, Texas 77478

6b. Any Subsequent W-1's Filed in Name of

11. Date Drilling Permit Issued: 3/27/00

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 11435 Feet From east Line and 7075.0 Feet From SE Line of the Thomson-Barrow Corp. C Lease

12. Permit Number: 493419

9a. SECTION, BLOCK, AND SURVEY: Miguel De Los Santos A-64

9b. Distance and Direction From Nearest Town in this County: 9.5 miles west from Woodsboro

13. Date Drilling Commenced: 1/22/01

16. Type Well (Oil, Gas, Dry): Dry

Total Depth: 6150'

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas - G	WELL #

14. Date Drilling Completed: 1/28/01

18. If Gas, Amt. of Cond. on Hand at time of Plugging

15. Date Well Plugged: 1/29/01

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	1/29	1/29	1/29/01					
20. Size of Hole or Pipe in which Plug Placed (inches)	~~7-7/8~~ 8-5/8	8 5/8	8 5/8					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1525	1150	14					
*22. Sacks of Cement Used (each plug)	50	40	5					
*23. Slurry Volume Pumped (cu. ft.)	59.5	47.6	5.2					
*24. Calculated Top of Plug (ft.)	1357	1019						
25. Measured Top of Plug (if tagged) (ft.)	1380							
*26. Slurry Wt. #/Gal.	15.6	15.6	16.5					
*27. Type Cement	A	A	H					

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8-5/8	24	1477	1473	12¼

RECORD CODIFICATION

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

T.W.R.C.C. LETTER DATED 3/28/00

Depth 1450 ft.

13(A) Exception Dated

Surface Casing FROM TO ft.

FROM @ TO ft.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

APR 30 2001

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

Return to Records Retention

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

J. W. Gray
Signature of Cementer or Authorized Representative

BJ Services Company
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L Barnes — REPRESENTATIVE OF COMPANY

President — TITLE

1/22/01 — DATE

Phone (361) 741-3600 — A/C NUMBER

RECEIVED
R.R.C. OF TEXAS
FEB 23 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING 174

025-33007

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? Circulate

33. Mud Weight: 10.0 LBS/GAL

34. Total Depth: 6150

Depth of Deepest Fresh Water: 1450

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: BJ Services Company, 411 Hartman Rd., Victoria, TX 77905

Date RRC District Office notified of plugging: 1/29/01

38. Name(s) and Address(es) of Surface Owners of Well Site:

Thomson-Barrow Corp.
5847 San Felipe, Suite 3830
Houston, TX 77057

39. Was Notice Given Before Plugging to the Above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Form L-1 (confidentiality requested) and Form W-15 submitted to Austin for inclusion into permanent record.

Cementer: Fill in shaded areas.
Operator: Fill in other items.

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

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C & E Operating, Inc.	120079	02	Bee

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Wildcat	42- 025 33007	493419

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Thompson-Barrow Corp. C			20

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		01/23/02					
13. •Drilled hole size		12 1/4					
•Est. % wash or hole enlargement		30					
14. Size of casing (in. O.D.)		8 5/8					
15. Top of liner (ft.)							
16. Setting depth (ft.)		1477					
17. Number of centralizers used		9					
18. Hrs. waiting on cement before drill-out		12					
1st Slurry	19. API cement used: No. of sacks ▶	40					
	Class ▶	A					
	Additives ▶	Poz,Gel,Salt					
2nd Slurry	No. of sacks ▶	120					
	Class ▶	A					
	Additives ▶	CaCL2					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	892					
	Height (ft.) ▶	2160					
2nd	Volume (cu. ft.) ▶	144					
	Height (ft.) ▶	348					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	1036					
	Height (ft.) ▶	2508					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

RECEIVED
R.R.C. OF TEXAS
FEB 23 2001
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22. Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
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Billy Wooldridge, Service Supervisor — Name and title of cementer's representative
BJ Services Co. — Cementing Company
Billy Wooldridge — Signature

411 Hartman Road, Victoria, Texas 77905 — Address, City, State, Zip Code
361-575-644 — Tel.: Area Code Number
01/23/01 — Date: mo. day yr.

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Terry L. Boening — Typed or printed name of operator's representative
President — Title
Terry L. Boening — Signature

345 Commerce Green Blvd., Sugar Land, Texas 77478 — Address, City, State, Zip Code
(361)741-3600 — Tel.: Area Code Number
2/22/01 — Date: mo. day yr.

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C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

EXPEDITE

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

Form W-1
Rev. 3/93

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

▶ File a copy of W-1 and plat in RRC District Office

▶ Read Instructions on Back

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 8000' - $150 8001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [X] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-33007 ▶ Permit No. 493419

1. Operator's Name (exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.
3. RRC Operator No.: 120079
4. RRC District No.: 02
5. County of Well Site: Bee
▶ Rule 37 Case No.

2. Address (including city and zip code): 345 Commerce Green Blvd. Sugar Land, Texas 77478
943730
6. Lease Name (32 spaces maximum): Thomson-Barrow Corp. "C"
7. RRC Lease/ID No.
8. Well No.: 20
9. Total Depth: 6200

10. Location
• Section _____ Block _____ Survey Miguel DeLosSantos Abstract No. A-64
• This well is to be located 9.5 miles in a west direction from Woodsboro which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 2594.1 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 16692.72 (OUTLINE ON PLAT.)

Granted 3/27/00

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
Wildcat (Above 6200) 4001	6200	467/1200	40	40	No	NA	O/G	1	1
Laura Thomson, S.E. (Chamberlain) 5229 1 200	6000	467/1200	40	40	No	NA	O/G	1	1

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 11435.5' FEL & 7075.0' FSEL
• Survey/Section 505.6' FEL & 4525.0' FSL

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____

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MAR 24 2000
OIL & GAS DIVISION
AUSTIN, TEXAS

23. Is this a pooled unit? Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [X] No [ ]

Remarks

Please expedite $150 + $50 = $200

I certify that information stated in this application is true and complete, to the best of my knowledge.

Terry L. Boening
Signature

Terry L. Boening, President
Name and title of operator's representative

3/23/00
Date: mo. day yr.

(361)741-3600
Tel.: Area Code Number

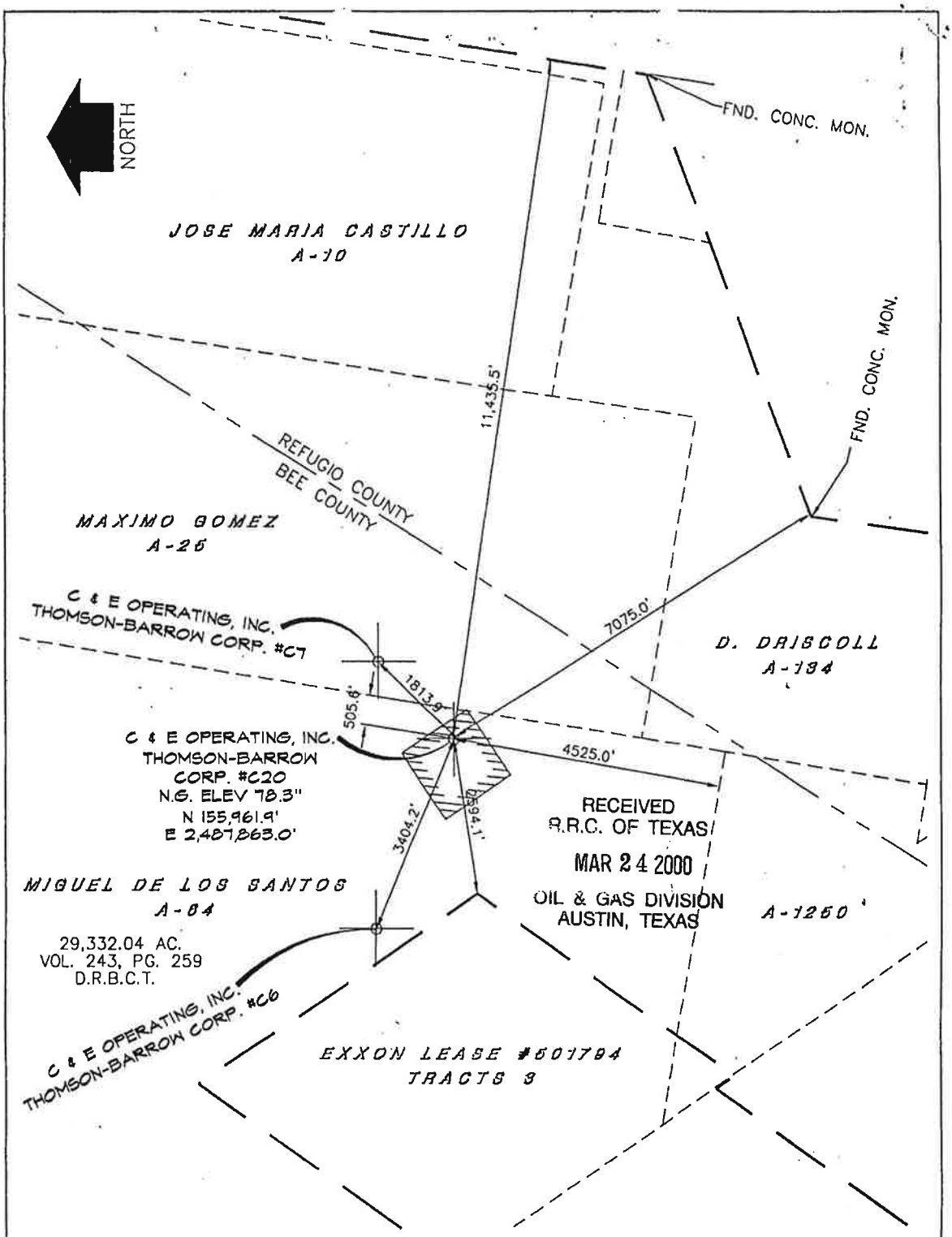
150 App 50WT
208089

• RRC Use Only •

493419

025-33007

MAPPING



TIES TO LEASE LINE
11,435.5' FEL
7,075.0' FSEL

TIES TO SURVEY LINES
505.6' FEL
4525.0' FSL

DISTANCE FROM NEAREST TOWN
9.5 MILES W OF WOODSBORO

I, MICHAEL D. STRIDDE, DO HEREBY CERTIFY THAT THIS LOCATION WAS STAKED ON THE GROUND ON MARCH 7, 2000 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
MICHAEL D. STRIDDE

STATE OF TEXAS
REGISTERED
MICHAEL D. STRIDDE
3589
PROFESSIONAL
LAND SURVEYOR

Michael D. Stridde 3-13-00

MICHAEL D. STRIDDE REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS NO. 3589 — DATE

NOTE: COORDINATES ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE N.A.D. 27

WELL LOCATION
C & E OPERATING, INC.
THOMSON-BARROW CORP. #C20
MIGUEL DE LOS SANTOS SURVEY, A-84
BEE COUNTY, TEXAS

DWG. No. :	0073-505
SCALE :	1"= 2000'
DATE :	3/00
DWN. BY :	

GOVIND & ASSOCIATES, INC.
CORPUS CHRISTI, TX. • CONSULTING ENGINEERS • (361)289-1385

MAP ID #107

API# 42-025-32848
GAS WELL
PLUGGED

RRC OF TEXAS

JUN 08 2011

OIL & GAS DIVISION
SAN ANTONIO, TX

107

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92 (99)

Thomson Barrow C #6

API No. (if available)	1. RRC District
42- 025-32848	02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 166200

2. FIELD NAME (as per RRC records)	3. Lease Name	5. Well Number
Laura Thomson (4850)	Thomson-Barrow Corp. C	6
6. OPERATOR	**6a. Original Form W-1 filed in name of**	**10 County**
C & E Operating, Inc.		Bee
7 ADDRESS 345 Commerce Green Blvd. Sugar Land, Texas 77498	**6b. Any subsequent W-1's filed in name of:**	**11. Date Drilling Permit Issued** 9/22/97
8 Location of well, relative to nearest lease boundaries of lease on which this well is located	12225 feet from north line and 472 feet from SW line of the Thomson-Barrow Corp. C	**12. Permit Number** 467831
9a. SECTION, BLOCK and SURVEY Miguel DeLosSantos A-64	**9b Distance and direction from nearest town in this county** 8.3 miles east from Skidmore	**13 Date Drilling Commenced** ~~9/20/98~~ 10-9-97

16. Type Well (oil, gas, or dry)	Total Depth	If multiple completion list all field names and oil lease or gas id no 's	Gas ID or Oil Lease #	Oil - O Gas - G	Well #	14 Date Drilling Completed
Gas	5850'					~~9/25/98~~ 10-25-97
18 If gas, amt. of cond. on hand at time of plugging						15. Date Well Plugged 5/27/11

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	5-27-11	5-27-11	5-27-11	5-27-11				
20 Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2	4 1/2				
21. Depth to Bottom of Tubing or Drill Pipe (ft)	4800	4300	1150	14				
*22. Sacks of Cement Used (each plug)	25	25	35	5				
*23. Slurry Volume Pumped (cu. ft.)	26.5	26.5	37.1	5.3				
*24. Calculated Top of Plug (ft.)	4650	4150	900	4				
25 Measured Top of Plug (if tagged) (ft)			750					
*26. Slurry Wt #/Gal	16.4	16.4	16.4	16.4				
*27. Type Cement	H	H	H	H				

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CENTRAL RECORDS
OCT 10 2011
AUSTIN, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

29. Was any non-drillable material (other than casing) left in this well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use reverse side of form if more space is needed.)

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	637	633	12¼
4 ½	10.5	5486	5482	7 7/8

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	5370	TO	5374	FROM		TO	
FROM	4856	TO	4859	FROM		TO	
FROM	4866	TO	4872	FROM		TO	
FROM	4320	TO	4325	FROM		TO	
FROM		TO		FROM		TO	

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

William Ferguson
Signature of Cementer or Authorized Representative

South Central Cementers
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Carol Banning — REPRESENTATIVE OF COMPANY
Office Manager — TITLE
6/6/11 — DATE
PHONE 361 — A/C
741-3600 — NUMBER

Carol 6/07/11
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

MAPPING 200

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission? ☒ Yes ☐ No

32. How was mud applied? Circulate

33 Mud Weight 10.0 LBS/GAL

34. Total Depth 5850 Depth of Deepest Fresh Water 1100

Other Fresh Water Zones by T.D W.R.

TOP	BOTTOM
0	850

35. Have all abandoned wells on this lease been plugged according to R R C Rules? ☒ Yes ☐ No

36. If No, Explain

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well
South Central Cementers, P.O. Box 967, Beeville, Texas 78104

Date RRC District Office notified of plugging 5/26/11

38. Name(s) and address(es) of surface owners of well site
Thomson-Barrow Corp.
5847 San Felipe
Suite 3830
Houston, Texas 77057

39. Was notice given before plugging to the above?
Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by either a driller's, electric, radioactivity, or acoustical/sonic log or such log must be released to a commercial log service.

☐ Log Attached ☐ Log released to _____ Date _____

Type Logs: ☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical / Sonic

41. Date FORM P-8 (Special Clearance) filed,

42. Amount of oil produced prior to plugging _____ bbls *
File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

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R.R.C. OF TEXAS

NOV 19 1998

OIL & GAS DIVISION
SAN ANTONIO, TEXAS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

Type or print only

483-047

API No. 42- 025 32848

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4850)	2. LEASE NAME: Thomson-Barrow Corp. "C"
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C&E Operating, Inc.	RRC Operator No: 120079
4. ADDRESS: 345 Commerce Green Blvd., Sugar Land, Texas 77478	
5. Location (Section, Block, and Survey): Miguel de los Santos A-64	5b. Distance and direction to nearest town in this county: 8.3 miles east of Skidmore
6. If operator has changed within last 60 days, name former operator	12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR: from dual
13. Pipe Line Connection: NGPL	Laura Thomson (5360 F-40) 169142 G 6T

	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
	169142	G	6T

7. RRC District No: 02
8. RRC Gas ID No: 166200
9. Well No: 6
10. County of well site: Bee
11. Purpose of filing
- Initial Potential ☐
- Retest ☐
- Reclass ☐
- Well record only (Explain in remarks) ☒

14. Completion or recompletion date: October 1, 1998
15. Any condensate on hand at time of workover or recompletion? ☒ Yes ☐ No
16. Type of Electric or other Log Run: Induction

Section I — GAS MEASUREMENT DATA

Date of Test:

Gas Measurement Method (Check One): Orifice Meter ☐ ▶ Flange Taps ☐ Pipe Taps ☐ | Positive Choke ☐ | Orifice Vent Meter ☐ | Pitot Tube ☐ | Critical-flow Prover ☐

Gas produced during test: MCF

Run No	Line Size	Orif. or Choke Size	24 Hr Coeff Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp ^oF	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1										
2										
3										
4										

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RECORDS CERTIFICATION
MAR 08 1999

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon Deg. API	Gas-Liquid Hydro Ratio CF/Bbl	Gravity of Mixture G_{mix} =	Avg Shut-in Temp ^oF	Bottom Hole Temp ^oF @ (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\quad}$ = $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = $\frac{\sqrt{GL}}{C}$ = ——— = ———

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp ^oF	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In									
1									
2									
3									
4									

Return to Records Retention

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)	Angle of Slope
Shut—In								θ .....
1								n .....
2								Absolute Open Flow
3								..... MCF/DAY
4								

WELL TESTER'S CERTIFICATION. I declare under penalties prescribed in Sec. 91 143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature. Well Tester | Name of Company | RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Terry L Brown — President — 11/16/98 — Tel (512)741-3600

Signature: Operator's representative — Title — Date — A/C Number

#3

OK/sme

SECTION III — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☒

18. Permit to Drill, Plug Back or Deepen — DATE: 9/22/97 — PERMIT NO.: 467831
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C&E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 4

21. Total number of acres in this lease: 16,693

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced: 9/20/98 Completed: 9/25/98

23. Distance to nearest well, Same Lease & Reservoir: 4440'

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1225 Feet From north Line and 472 Feet from southwest Line of the Thomson-Barrow Corp. C Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 88.2

26. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒ No

27. Top of Pay	28. Total Depth	29. P. B. Depth	30. Surface Casing Determined by:
4866'	5850'	4950'	Field Rules ☐ / Recommendation of T.D.W.R. ☐ / Railroad Commission (Special) ☐

Dt. of Letter
Dt. of Letter

31. Is well multiple completion? ☐ Yes ☒ No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools | Cable Tools

34. Name of Drilling Contractor

35. Is Cementing Affidavit Attached? ☐ Yes ☐ No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	4796	4796

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	4866	To	4872
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4866-4872	Perforate 4 SPF
4950	CIBP + 20' cement
5370-74	Abandoned perfs

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS: Formerly dual completion - Laura Thomson (5360F-40) & Laura Thomson (4850). Abandoned (5360 F-40). Now producing (4850) zone thru tubing.

Type or print only

483-047

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1
Rev. 4/1/83

API No. 42-025-32848

7. RRC District No. 2

8. RRC Gas ID No. 166200

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4850)

2. LEASE NAME: Thomson-Barrow Corp. "C"

9. Well No. 6C

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): C & E Operating, Inc.

RRC Operator No. 120079

10. County of well site: Bee

4. ADDRESS: 13333 Southwest Freeway #105, Sugar Land, Texas 77478

11. Purpose of filing
- Initial Potential [*]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): Miguel de los Santos A-64

5b. Distance and direction to nearest town in this county.: 8.3 miles E from skidmore

6 If operator has changed within last 60 days, name former operator

If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13. Pipe Line Connection: Natural Gas Pipeline

14. Completion or recompletion date: 10/23/97

15. Any condensate on hand at time of workover or completion? [ ] Yes [X] No

16. Type of Electric or other Log Run.

RECEIVED R.R.C. OF TEXAS NOV 17 1997 OIL & GAS DIVISION SAN ANTONIO, TEXAS

Section I — GAS MEASUREMENT DATA

Date of Test: 10/23/97

Gas Measurement Method (Check One): Orifice Meter [ ] Flange Taps Pipe Taps [ ] Positive Choke [X] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 63 MCF

Run No	Line Size	Orif. or Choke Size	24 Hr Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1		16/64	1.47	275		80.0	0.9813	0.9942	1.0211	403
2		15/64	1.288	305		80.0	0.9813	0.9942	1.0235	392
3		14/64	1.116	335		80.0	0.9813	0.9942	1.0258	374
4		13/64	0.956	365		80.0	0.9813	0.9942	1.0282	350

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture G_m	Avg. Shut-in Temp.	Bottom Hole Temp.
0.607	Deg. API	CF/Bbl	0.607	124 °F	172 °F @ 4868 (Depth)

$D_{eff}^{8/3}$ = 17.981

$\sqrt{T_f}$ = $\sqrt{586.000}$ = 24.207

$\sqrt{P_w^2 - P_L}$ = $\sqrt{2954.876}$ = 54.359

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = 830.449

$\sqrt{\frac{P_w^2 - P_L}{C}}$ = = 0.065

Return to Records Retention

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_l	P_w/P_l
Shut-In			615	75.0	378				
1	60	16/64	275	80.0	76	26.4	0.7	276.3	0.9954
2	60	15/64	305	80.0	93	25.7	0.7	306.1	0.9965
3	60	14/64	335	80.0	112	24.5	0.6	335.9	0.9973
4	60	13/64	365	80.0	133	22.9	0.5	365.7	0.9980

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In		0.0949	1.0778	1.1077	681	463.8	
1	0.9977	0.0943	1.0564	1.1048	305	93.2	370.6
2	0.9982	0.0944	1.0581	1.1050	338	114.4	349.4
3	0.9987	0.0944	1.0599	1.1052	371	137.8	325.9
4	0.9990	0.0944	1.0617	1.1055	404	163.4	300.3

Angle of Slope
θ 55.61
n 0.6846

Absolute Open Flow
473 ..... MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

RECORD CODIFICATION MAR 27 1998

D.D. Van Nuss — Signature, Well Tester

Target Well Services, Inc. — Name of Company

RRC Representative

OPERATOR'S CERTIFICATION. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Terry L. Bradberry — Signature Operator's Representative

President — Title

11/7/97 — Date

Tel 281/ 265-6500 — A/C Number

HS

MAPPING

VALID PERMIT
PRODUCTION ALLOCATION 7B

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest) NOV 24 1997 amended

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 9/22/97 — PERMIT NO. 467831
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: C & E Operating, Inc.

20. Number of producing wells on this lease in this field (reservoir) including this well: 3

21. Total number of acres in this lease: 16,693.00

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 10/2/97 — Completed 10/25/97

23. Distance to nearest well, Same Lease & Reservoir: 7489'

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 12,225 Feet From NL and 472' Feet from SWL Line of the Thomson-Barrow Corp. C Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 88.2'

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay: 4866 — 28. Total Depth: 5859' — 29. P. B. Depth: 5445'

30. Surface Casing Determined by: Field Rules [ ] — Recommendation of T.D.W.R. Railroad Commission (Special) [XX] — Dt. of Letter 9/22/97

31. Is well multiple completion? [X] Yes [ ] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Laura Thomson (4850)	166300	G	6-C
Laura Thomson (5360 F-40) 4/19/13	NA	G	6-T

33. Intervals Drilled by: Rotary Tools XX — Cable Tools

34. Name of Drilling Contractor: Corpus Christi Drilling

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8"	24	630	N/A	305 sx A	12 1/4"	surface	1333
4 1/2"	10.5	5486	1584	615 sx H	7 7/8"	surface	1046

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8"	4885	4885

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	4866	To	4869
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
4866-69'	Perf 4 SPf
5370-74'	Perf 4 SPF

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
Vicksburg	5900'		

REMARKS

DUAL COMPLETION

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

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SAN ANTONIO, TEXAS

Form W-12
(1-1-71)

INCLINATION REPORT

(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson
2. LEASE NAME: Thomson-Barrow Corp. C
3. OPERATOR: C & E Operating, Inc.
4. ADDRESS: 13333 Southwest Freeway, #105 , Sugar Land, Texas 77478
5. LOCATION (Section, Block, and Survey): Miquel de los Santos A-64
6. RRC District: 02
7. RRC Lease Number (Oil completions only):
8. Well Number: 6-C & 6-T
9. RRC Identification Number (Gas completions only): 166200
10. County: Bee

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
443	443	1/4	0.43	1.90	1.90
643	200	1/4	0.43	0.86	2.76
1641	998	1/4	0.43	4.29	7.05
2630	989	1/4	0.43	4.25	11.30
3630	1000	1/4	0.43	4.30	15.60
4526	896	1/2	0.87	7.80	23.40
5520	994	3/4	1.31	13.02	36.42
5850	330	3/4	1.31	4.32	40.74

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no
18. Accumulative total displacement of well bore at total depth of 5850 feet = 40.74 feet.
*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line 472 feet.
21. Minimum distance to lease line as prescribed by field rules 467 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO
(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Robert R. Kullin
Signature of Authorized Representative

Robert R. Kullin - President
Name of Person and Title (type or print)

Corpus Christi Drilling Company
Name of Company

Telephone: 512 (Area Code) 991-8400

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Terry L. Boening
Signature of Authorized Representative

Terry L. Boening / President
Name of Person and Title (type or print)

C & E Operating, Inc.
Operator

Telephone: 281 (Area Code) 265-6500

Railroad Commission Use Only:

Approved By: HELMUTH SCHNEIDER Title: Geol. Date: 11-17-97

* Designates items certified by company that conducted the inclination surveys.

Cementer, Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E Operating, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7 Drilling Permit No**
Laura Thomson		42- 025-32848	467831
8 Lease Name	**9 Rule 37 Case No**	**10 Oil Lease/Gas ID No**	**11 Well No**
Thomson - Barrow Corp. C		166200	6

CASING CEMENTING DATA.		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date		10/01/97					
13 •Drilled hole size		12 1/4					
•Est % wash or hole enlargement		25					
14 Size of casing (in O D)		8 5/8					
15 Top of liner (ft)							
16 Setting depth (ft)		630					
17 Number of centralizers used		6					
18 Hrs waiting on cement before drill-out		12					
1st Slurry	19 API cement used No of sacks ▶	195					
	Class ▶	A					
	Additives ▶	Gel, Salt					
2nd Slurry	No of sacks ▶	110					
	Class ▶	A					
	Additives ▶	CaCl2					
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped: Volume (cu ft) ▶	408					
	Height (ft) ▶	993					
2nd	Volume (cu ft) ▶	140					
	Height (ft) ▶	340					
3rd	Volume (cu ft.) ▶						
	Height (ft) ▶	548					
Total	Volume (cu. ft) ▶	1333					
	Height (ft) ▶	Yes					
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?							

T.N.R.C.C. LETTER DATED 9-22-97
Depth 1550 ft.
13(A) Exception Dated 9-24-97
Surface Casing 600' ft.
D.V. @ ft.

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22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

James Tuttle, Service Suprv. — Name and title of cementer's representative
BJ Services Co. — Cementing Company
Signature

411 Hartman Road — Address
Victoria, TX 77905 — City, State, Zip Code
512-575-6446 — Tel.: Area Code Number
10/01/97 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Terry L. Boening — Typed or printed name of operator's representative
President — Title
Terry L. Boening — Signature

13333 Southwest Freeway, #105 — Address
Sugar Land, TX 77478 — City, State, Zip Code
281/ 265-6500 — Tel.: Area Code Number
11/7/97 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
C & E OPERATING, Inc.	120079	02	Bee
5 Field Name (Wildcat or exactly as shown on RRC records)		6 API No	7 Drilling Permit No
Laura Thomson		42- 025-32848	467831
8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
Thomson-Barrow Corp. C		166200	6

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12 Cementing Date						10/09/97	10/09/97
13 •Drilled hole size						7 7/8	7 7/8
•Est % wash or hole enlargement						15	10
14 Size of casing (in O D)						4 1/2	4 1/2
15 Top of liner (ft)							
16 Setting depth (ft)						1584	5486
17 Number of centralizers used						9	8
18 Hrs waiting on cement before drill out						NA	NA
1st Slurry	19 API cement used No of sacks ▶					225	75
	Class ▶					A	H
	Additives ▶					Salt	Salt,R-3
2nd Slurry	No of sacks ▶					85	230
	Class ▶					A	H
	Additives ▶					CaCl2	ASA-301, Salt,FL-25
3rd Slurry	No of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20 Slurry pumped Volume (cu ft) ▶					502	167
	Height (ft) ▶					2202	739
2nd	Volume (cu ft) ▶					101	276
	Height (ft) ▶					444	1211
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶					603	443
	Height (ft) ▶					2646	1950
21 Was cement circulated to ground surface (or bottom of cellar) outside casing?						Yes	Yes

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OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

James Tuttle, Service Suprv.	BJ Services Co.		
Name and title of cementer's representative	Cementing Company	Signature	
411 Hartman Road	Victoria, TX 77905	512/575-6446	10/09/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data

Terry L. Boening	President	Terry L. Boening	
Typed or printed name of operator's representative	Title	Signature	
13333 Southwest Freeway, #105 Sugar Land, Tx 77478		281/ 265-6500	11/7/97
Address	City, State, Zip Code	Tel.: Area Code Number	Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging) For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, **in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

CHARLES R. MATTHEWS, CHAIRMAN
BARRY WILLIAMSON, COMMISSIONER
CAROLE KEETON RYLANDER, COMMISSIONER

DAVID E. SCHIECK
DIRECTOR, OIL AND GAS DIVISION
LORI WROTENBERY
DEPUTY DIRECTOR—OIL AND GAS DIVISION

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

November 19, 1997

C & E OPERATING INC #120079
ATTN TERRY L BOENING
13333 SOUTHWEST FRWY STE 105
SUGARLAND TX 77478

RE: MULTIPLE COMPLETION, THOMPSON-BARROW CORP Lease, Well Number 6, LAURA THOMPSON Field, BEE County, Texas

Dear Operator:

This will acknowledge receipt of electrical log, packer setting and/or cementing report, communication test and diagrammatic sketch which you have submitted in connection with the application for multiple completion on the above well.

Since you have complied with all provisions of Commission Order No. 20-29,541, dated May 19, 1954, and effective June 1, 1954, a formal multiple completion order will not be prepared in this case and the Commission hereby grants multiple completion authority for this well in the following reservoirs, effective November 17 1997.

WELL CODE DESIGNATION	RESERVOIR	TYPE
166200C	(4850) 52285-166	Gas
169142T	(5360 F-40) 52285-300	Gas

Sincerely,

Jim Melear

Jim Melear, Geologist

JM

cc District Office San Antonio
Proration 02- Dana Seal
File

Jun 11/17/97 cand mail

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-4
(Rev 8-27-69)

APPLICATION FOR MULTIPLE COMPLETION

025-32848

1. Field Name Laura Thomson	2. RRC District 02
3. Operator C & E Operating, Inc. 120079	4. County Bee
5. Lease Name(s) and RRC Lease Number(s) Thomson-Barrow Corp. C	6. Well Number #6

7. Are the reservoirs herein requested to be used for Dual (type of completion – dual, triple, etc.) completion presently recognized by the Commission as separate reservoirs as the result of prior applications for permission to multiply complete? Yes (yes or no). If answer to this question is "NO", ALL OPERATORS IN THE FIELD MUST BE FURNISHED A COPY OF THIS APPLICATION.

8. Identify one instance (operator, lease, well number) wherein the Commission granted a multiple completion including these same zones in this field. N/A

9. MULTIPLE COMPLETION DATA

	DUAL COMPLETION			
	1st (Upper) Zone	2nd Zone	3rd Zone	4th Zone
(a) RRC Alphabetic Code Designation (Multiple Well Completion Designation – See Instructions on reverse side.)	52285-166 C	52285-300 T		
(b) Name of Reservoir (If reservoir name is shown on proration schedule, use that name.)	(4850)	(5360 F-40)		
(c) Type of Production (oil or gas) (If used for injection, state type fluid injected.)	Gas	Gas		
(d) Depth to Top of Pay Section (ft.)	4866	5370		
(e) Depth to Bottom of Pay Section (ft.)	4869	5374		
(f) Producing Interval(s) (top to bottom)	4866-69	5370-74		

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RECEIVED R.R.C. OF TEXAS NOV 17 1997 OIL & GAS DIVISION SAN ANTONIO, TEXAS

10. The following supporting evidence is attached: (Please answer YES or NO.)
(a) Electrical Log with tops and bottoms of producing zones and perforated intervals shown and marked X.
(b) Packer Setting Report and/or Cementing Report X.
(c) Communication or Packer Leakage Test (with Recorder Charts) X.
(d) Sketch of Multiple Completion Installation X.

11. List below or on an attached sheet ALL OFFSET OPERATORS to the lease on which this well is located together with their correct mailing address.

Mueller Engineering
1010 First City TWR II
Corpus Christi, Texas 78478

(a) Attach Letters of Waiver from Offset Operators, OR
(b) Furnish each Offset Operator with a completed copy of this form and give date furnished. _____.

(APPLICANTS MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

12. Is this a regular location with respect to all zones? Yes (yes or no)

13. If the answer to Item 12 is "NO", has a Rule 37 Hearing been held on zones affected by such rule? _____ (yes or no)
State the Rule 37 Case Number. _____.

14. Is the fluid produced from any of these zones conducive to corrosion to the extent that any resulting corrosion will damage tubing or casing? No

15. Remarks:

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

11/7/97
Date

Terry L. Boening
Signature

C & E Operating, Inc.
Operator

Terry L. Boening
Name of Person (type or print)

13333 Southwest Freeway, #105
Street Address or P.O. Box

President
Title of Person

Sugar Land, Texas 77478
City, State Zip Code

Telephone: 281/ 265-6500
Area Code

– INSTRUCTIONS –

1. File the original and one copy of this form in the Railroad Commission District Office with the following REQUIRED ATTACHMENTS:
   (a) Packer Setting Report (Form W-5) where applicable and/or Cementing Report (Form W-15).
   (b) Communication or Packer Leakage Test (Form W-6).
   (c) Sketch of Multiple Completion Installation (Form W-4A).
   (d) Letters of Waiver from offset operators, or evidence that notice of the application to multicomplete was given to said operators.
   (e) Electrical Log showing subsurface location of the separate reservoirs claimed.
2. The required attachments in (a), (b), and (c) above shall be filed in duplicate.
3. This form may be used for a dual, triple, or quadruple completion. If more than four zones are involved, use this form and add an attached sheet.
4. If any completion is to be used for injection, separate permission to inject must be obtained from the Commission.
5. For Item 9 (a), the following Multiple Well Completion Designation shall be used.

RRC ALPHABETIC CODE DESIGNATION	FORMERLY USED DESIGNATION
C	C
T	T
U	UT or UC
L	LT or LC
M	MT or MC
P	UMT or UMC
Q	LMT or LMC
D	S-1-C, S-1 or W or W-C
E	S-1-T or W-T
F	S-2-C, S-2 or X or X-C
G	S-2-T or X-T
H	S-3-C, S-3 or Y or Y-C
I	S-3-T or Y-T
J	S-4-C, S-4 or Z or Z-C
K	S-4-T or Z-T
N	S-5-C or S-5
O	S-5-T

Side 1

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-4A
(Rev. 8-27-69)

SKETCH OF MULTIPLE COMPLETION INSTALLATION
WITH TUBING INSIDE CASING

(Fill out only the side of this form that applies to your installation.)

1. Field Name: Laura Thomson	2. RRC District: 02
3. Operator: C & E Operating, Inc.	4. County: Bee
5. Lease Name(s) and RRC Lease Number(s): Thomson-Barrow Corp. C	6. Well Number: #6-C & #6-T
7. Type of Multiple Completion — dual, triple, etc.: Dual	8. Which sketch below (A, B, C, or D) fits your multi-completion installation? A
	9 Date: 11/7/97

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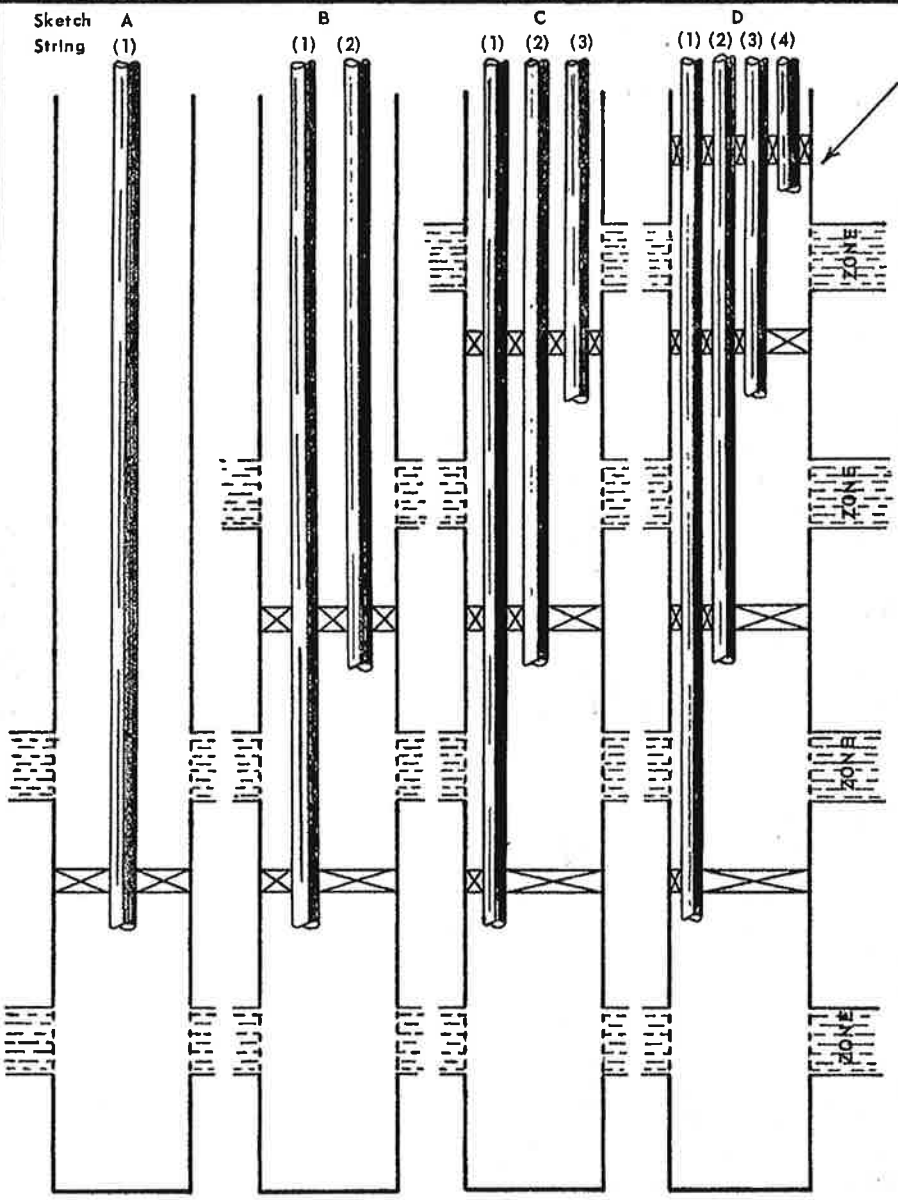

Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____

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Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____

Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation 6C
Name of Reservoir Laura Thomson (4850)
Type of Production (oil, gas, or Inj.) Gas
Zone Interval 4866 to 4869
Perforated or Producing Interval 4866 to 4869

Packer set at 4885' ft.
Tubing landed at 4885' ft.

RRC Alphabetic Code Designation 6T
Name of Reservoir Laura Thomson (5360 F-40)
Type of Production (oil, gas, or Inj.) Gas
Zone Interval 5370 to 5374
Perforated or Producing Interval 5370 to 5374

4 1/2 inch Casing set at 5486 ft.
Total Well Depth at 5859 ft.

NOTE: Clearly mark any Cross-over Packers or Side Door Chokes and show depth at which set.

Side Door Choke set at _____ ft. String No. _____ Cross-over Packer set at _____ ft. , String No. _____

— INSTRUCTIONS FOR SIDE 1 —

1. Fill out only the side of this form that applies to your multiple completion installation. This side may be used for a dual, triple, or quadruple completion. If none of the sketches fits your installation, draw your installation on an attached sheet showing the identical required information.
2. If this side of the form is used, two copies of Form W-5, PACKER SETTING REPORT (for each packer set); two copies of Form W-6, COMMUNICATION OR PACKER LEAKAGE TEST; an Electrical Log; and two copies of this form must be filed with the two copies of Form W-4, APPLICATION FOR MULTIPLE COMPLETION, in the RRC District Office.

Side 2

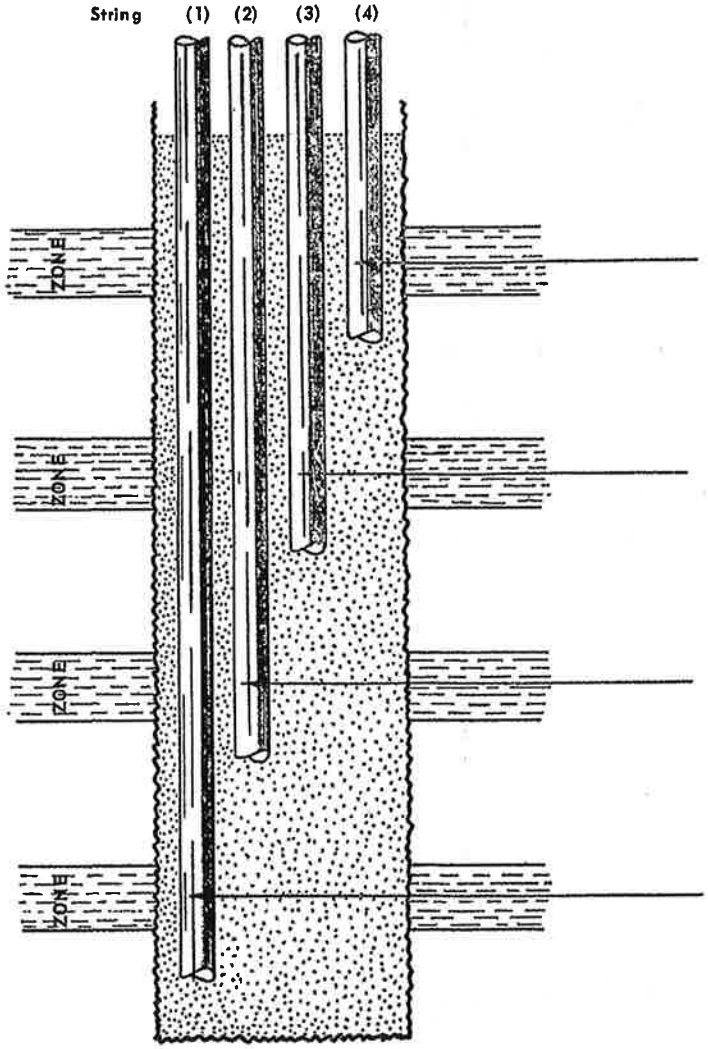
RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-4A
(Rev. 8-27-69)

SKETCH OF MULTIPLE COMPLETION INSTALLATION WITH MULTIPLE STRINGS CEMENTED IN PLACE

(Fill out only the side of this form that applies to your installation.)

1. Field Name	2. RRC District
3. Operator	4. County
5. Lease Name(s) and RRC Lease Number(s)	6. Well Number
7. Type of Multiple Completion — dual, triple, etc.	8. Date



Top of Cement at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____
_____ inch Casing set at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____
_____ inch Casing set at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____
_____ inch Casing set at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____
_____ inch Casing set at _____ ft.

Total Well Depth at _____ ft.

NOTE: Clearly mark any tubing run on a packer inside casing giving depth at which packer set, depth at which tubing landed, and the above required zone information.

— INSTRUCTIONS FOR SIDE 2 —

1. Fill out only the side of this form that applies to your multiple completion installation. This side may be used for two, three, or four strings cemented in place. If this sketch cannot be adapted for your installation, draw your installation on an attached sheet showing the identical required information.
2. If this side of the form is used, two copies of Form W-15, CEMENTING REPORT; two copies of Form W-6, COMMUNICATION OR PACKER LEAKAGE TEST; an Electrical Log; and two copies of this form must be filed with the two copies of Form W-4, APPLICATION FOR MULTIPLE COMPLETION, in the RRC District Office.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-5
(Rev 8-27-69)

PACKER SETTING REPORT

(File two copies of this form in the RRC District Office for each packer set.)

1. Field Name	2. RRC District
Laura Thomson	02
3. Operator of Well	**4. County**
C & E Operating, Inc.	Bee
5. Lease Name(s) and RRC Lease Number(s)	**6. Well Number**
Thomson-Barrow Corp. C	#6-C & #6-T
7. Make and Type of Packer	**8. Depth at which Packer was set (ft.)**
Baker model "R" Double Grip	4885'
9. Depth Measurement in Item 8 furnished by:	**10. Date Packer was set**
Pipe Tally	10/23/97
11. Remarks:	

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AUSTIN, TEXAS

I personally supervised the setting of the packer described above in Items 1 through 11. The purpose of setting this packer was to effect a seal in the annular space between the two strings of pipe where the packer was set so as to prevent the commingling, in the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer. The make and type packer set was adequate to effectively and absolutely seal off the annular space between the two strings of pipe when it was properly set. This packer was properly set.

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

11/7/97
Date

Terry L. Boening
Signature of Person Making Report

C & E Operating, Inc.
Employer

Terry L. Boening
Name of Person (type or print)

13333 Southwest Freeway, #105
Street Address or P.O. Box

President
Title of Person

Sugar Land, Texas 77478
City, State Zip Code

Telephone: 281 265-6500
Area Code

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-6
(Rev 1-8-70)

COMMUNICATION OR PACKER LEAKAGE TEST

1. Field Name	2. RRC District: 2
3. Operator: C & E Operating, Inc.	4. County: Bee
5. Lease Name(s) and RRC Lease Number(s): Thomson Barrow Corp. "C"	6. Well Number: 6T & 6C

ZONE INFORMATION	1st (Upper) Zone	2nd Zone	3rd Zone	4th Zone
7. RRC Alphabetic Code Designation *(Multiple Well Completion Designation - See Instructions, reverse side.)*	C	T		
8. Name of Reservoir *(If reservoir name is shown on proration schedule, use that name.)*	Laura Thomson (4850)	Laura Thomson (5360 F-40)		
9. Type of Production (oil or gas) *(If used for injection, state type fluid injected.)*	Gas	Gas		
10. Producing Interval(s)	4866-4869	5370-5374		
11. Date & Hour well shut-in prior to testing. *(All zones shut-in.)*	10/24/97@100pm	10/24/97@100pm		
12. Stabilized shut-in pressure prior to producing any zone (psig)	523	2115	Note: All pressures by DWG	

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DATA ON PRODUCING COMPLETION ---------- DUAL COMPLETION ----------	Test No. 1	Test No. 2	Test No. 3	Test No. 4
13. ZONE PRODUCING *(Fill in under each test the appropriate RRC Alphabetic Code Designation from Item 7.)*	C(Red)	T(Black)		
14. Stabilized shut-in pressure prior to producing this zone. (psig)	Same as Item 12	2105		
15. Producing method & choke size (inches)	Flowing;14/64	Flowing;12/64		
16. Date & Hour completion opened.	10/30/97@1230p	10/31/97@730am		
17. Stabilized flowing pressure while producing. (psig)	396	1650		
18. Length of time required for stabilization of flowing pressure. (hrs)	5.0	7.5		
19. Date & Hour completion shut-in.	10/30/97@530pm	10/31/97@300pm		
20. Stabilized shut-in pressure after producing this zone. (psig)	558	2125		
21. Time required for obtaining above stabilized shut-in pressure. (hrs.)	18.0	2.0		
22. Amount of oil produced during test. (bbls.)	0	0		
23. Amount of gas produced during test. (MCF)	83	399		
24. Amount of water produced during test. (bbls.)	0	0		

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DATA ON SHUT-IN COMPLETION(S)												
25. ZONE(S) SHUT-IN *(Fill in under each test the appropriate RRC Alphabetic Code Designation from Item 7.)*		C			T							
26. Stabilized shut-in pressure prior to this test. (psig)	Same as Item 12	Same as Item 12	Same as Item 12		2115							
27. Minimum shut-in pressure during test. (psig)		523			2105							
28. Maximum shut-in pressure during test. (psig)		558			2125							
29. Stabilized shut-in pressure at the end of the test. (psig)		558			2125							
30. Maximum pressure change of shut-in completion during test. (psig) (+ Increase) or (- Decrease)		+35			-20							

(APPLICANTS MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

31. Was the Commission's District Office notified of this test 24 hours prior to the shut-in of all completions at the start of this test? _____

32. Remarks:

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

11/3/97
Date

D. E. VanNess
Signature

Target Well Services, Inc.
Operator

Don E. VanNess
Name of Person (type or print)

P.O. Box 4659
Street Address or P.O. Box

Manager
Title of Person

Corpus Christi, Texas 78469
City, State Zip Code

Telephone: (512) 883-8100
Area Code

– INSTRUCTIONS –

1. This form may be used for a dual, triple, or quadruple completion.
2. The original and one copy of this form shall be filed with the Railroad Commission District Office.
3. The Commission's District Office shall be notified 24 hours prior to conducting this Communication or Packer Leakage Test.
4. After allowing all zones to build up and stabilize, the general procedure for the Communication or Packer Leakage Test involves testing each zone by (a) a draw-down producing test (one zone producing and all other zones shut-in) followed by (b) a build-up test after producing that zone (all zones shut-in).
5. Prior to beginning the test, all zones shall be shut-in a sufficient length of time to allow wellhead pressures to become stabilized and for a minimum of 2 hours thereafter. Under shut-in conditions, stabilization may be considered attained when the rate of pressure build-up does not exceed one pound per 30 minute period. If all the zones shut-in will not stabilize in 24 hours, the zones do not have to remain shut-in longer than the 24 hour period, and thus the operator may proceed.
6. If a zone is on gas lift, the gas lift supply valve should be closed except during lifting or producing operations.
7. During any test, the rate of production for the zone being produced shall not be less than the anticipated calendar day allowable for an oil well and shall not be less than the anticipated maximum daily withdrawal for a gas well.
8. For Test No. 1, the well shall be produced in one zone with the other zone(s) shut-in until the producing wellhead pressure has become stabilized and for a minimum of 2 hours thereafter. Under flowing conditions, the pressure may be considered stabilized when it does not vary more than 0.1% of the original shut-in well head pressure during a 15 minute interval. For a producing zone which will not stabilize in 24 hours, the zone does not have to be produced any longer than 24 hours trying to reach stabilization.
9. Following each test, all zones shall be shut-in until wellhead pressures have become stabilized and for a minimum of 2 hours thereafter. If all the zones shut-in will not stabilize in 24 hours, the zones do not have to remain shut-in longer than the 24 hour period, and thus the operator may proceed.
10. For the next test, produce one zone that has not already been produced, with the other zone(s) shut-in.
11. For triple or more completions, repeat Instructions 9 and 10 until all zones have been tested.
12. All pressures shall be measured with recording gauges. The maximum capacity of the pressure recording gauge should not be more than twice the expected shut-in pressure. The original charts shall be submitted along with this form. The accuracy of the recording gauges should be checked periodically during the tests with a dead weight test gauge.
13. For Items 7, 13, and 25, the following Multiple Well Completion Designation shall be used.

RRC ALPHABETIC CODE DESIGNATION	FORMERLY USED DESIGNATION
C	C
T	T
U	UT or UC
L	LT or LC
M	MT or MC
P	UMT or UMC
Q	LMT or LMC
D	S-1-C, S-1 or W or W-C
E	S-1-T or W-T
F	S-2-C, S-2 or X or X-C
G	S-2-T or X-T
H	S-3-C, S-3 or Y or Y-C
I	S-3-T or Y-T
J	S-4-C, S-4 or Z or Z-C
K	S-4-T or Z-T
N	S-5-C or S-5
O	S-5-T

RAILROAD COMMISSION REPRESENTATIVE: The undersigned Commission Representative has witnessed and/or checked the foregoing test.

James C. Melton
Signature of Commission Representative

MAP ID #108

API# 42-025-31144
DRY HOLE

Plugging Record
EXXON Co.
L.T. Barrow 328

(108)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42-025-31144 (If available)

1. RRC District: 2

4. RRC Lease or Id. Number:

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records): WILDCAT	3. Lease Name: LAURA T. BARROW "B"	5. Well Number: 28
6. OPERATOR: EXXON CORPORATION	6a. Original Form W-1 Filed in Name of: EXXON CORPORATION	10. County: BEE
7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TX. 78476	6b. Any Subsequent W-1's Filed in Name of:	11. Date Drilling Permit Issued: 7-19-79
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3675 Feet From SW Line and 7450 Feet From SE Line of the LAURA T. BARROW "B" Lease		12. Permit Number: 053261
9a. SECTION, BLOCK, AND SURVEY: MIGUEL DE LOS SANTOS (A-64)	9b. Distance and Direction from Nearest Town in this County: 11.3 MI. EAST OF SKIDMORE, TX	13. Date Drilling Commenced: 11-7-79
16. Type Well (Oil, Gas, Dry): DRY; Total Depth: 4915	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s: GAS ID or OIL LEASE #; Oil-O Gas-G; WELL #	14. Date Drilling Completed: 11-13-79
18. If Gas, Amount of Condensate on Hand at time of Plugging:		15. Date Well Plugged: 11-14-79

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	11/13/79		11-14-79					
20. Size of Hole or Pipe in which Plug Placed (inches)	9 5/8		8 5/8					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1330		30					
*22. Sacks of Cement Used (each plug)	100	~~sacks~~ (10) sks for Top						
*23. Slurry Volume Pumped (cu. ft.)	118							
*24. Calculated Top of Plug (ft.)	1076		4					
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	15.6		15.6					
*27. Type Cement	Class H		H					

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	32	1212.00	1212.00	17 1/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

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NOV 26 1979
SAN ANTONIO, TEXAS

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

G.W. Vaughan
Signature of Cementer or Authorized Representative

Dowell Div of the Dow Chemical Co.
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

W. M. Parker
REPRESENTATIVE OF COMPANY

W. M. PARKER, JR. SECTION HEAD
TITLE

NOV 20 1979
DATE

Phone 512/887-2228
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

025-31144

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission [X] Yes [ ] No	32. How was Mud Applied? PUMPED	33. Mud Weight 9.5 LBS/GAL

34. Total Depth 4915'	Other Fresh Water Zones by T.D.W.R. TOP / BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No
Depth of Deepest Fresh Water 1125		36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this Well: DOWELL, P.O. BOX 1189, VICTORIA, TX 77901

Date RRC District Office notified of plugging: 11-13-79

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

NO OFFSET PRODUCING LEASES

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[X] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[X] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ Bbls

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS

025-31144

0 0 0 0 2 6 0 1 1 2 1

EXXON COMPANY, U.S.A.
WILSON TOWER • CORPUS CHRISTI, TEXAS 78476

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

DRILLER'S LOG

FROM	TO	FORMATION
0 —	815	CLAY & SAND
815 -	3700	SAND & SHALE
3700 -	3983	SHALE
3983 -	4235	SAND & SHALE
4235 -	4628	SHALE
4628 -	4915	SHALE & SAND

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SAN ANTONIO, TX.

I, G. F. PRESSON REPRESENTING EXXON CORPORATION DO CERTIFY THAT THE FOREGOING HAS BEEN EXTRACTED FROM THE DAILY DRILLERS REPORT OF THE LAURA T. BARROW "B" No. 28 WELL IN BEE COUNTY, TEXAS AND THAT THE SAME IS A TRUE AND CORRECT STATEMENT OF THE INFORMATION REVEALED IN THE REPORT, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE: NOV 20 1979

EXXON CORPORATION

BY _____
G. F. PRESSON

A DIVISION OF EXXON CORPORATION

025-31144

EXXON CO., USA
L.T. Barrow B-28

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) WILD CAT	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA T. BARROW "B"	*6. Well Number 28
*7. Location (Section, Block, and Survey) MIGUEL DE LOS SANTOS (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	11/8/79					
*9. (a) Size of Drill Bit (inches)	12¼					
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)	8 5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1225					
13. Type API Class Cement & Amount of Additives Used (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	Remarks					
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	508					
(b) In Second Slurry	150					
(c) In Third Slurry	~~50~~					
(d) Total Sacks of Cement Used	708					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.20					
(b) In Second Slurry	1.18					
(c) In Third Slurry	1.18					
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	1117.6					
(b) In Second Slurry	177					
(c) In Third Slurry	59					
(d) Total Slurry Volume Pumped (cu.ft.)	1353.6					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	Surface					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes					

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O.G.
S.N. ANTONIO, TX.

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

Cowes

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

325-3114

26. Remarks: EXXON

Lead Class H + 8% Gel + 3% D44 + 2/10% D46

Tail Class H + 2% $CaCl_2$

Top Out Class H + 2% $CaCl_2$

27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Signature of Cementer or Authorized Representative

E. Evans

Name of Person and Title (type or print)

Dowell Div of the Dow Chemical Co.

Cementing Company

P.O. Box 1189

Street Address or P.O. Box

Victoria, Texas 77901

City, State Zip Code

Telephone 512 573-6379

Area Code

11/8/79

Date

***OPERATOR**

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data and information presented herein.

*Signature of Operator or Authorized Representative

W. M. PARKER, JR. SECTION HEAD

*Name of Person and Title (type or print)

EXXON CORPORATION

*Operator

WILSON TOWER

*Street Address or P.O. Box

CORPUS CHRISTI, TX 78476

*City, State Zip Code

*Telephone 512/887-2228

Area Code

NOV 20 1979

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Fi Rule
   (2) T s Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

FORM W-1
(6/78)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

API Well No. 42
Instruction (7a & b) on back side. 025-31144

☐ Directional Well ☐ Amended or Corrected Permit

053261

RRC Permit Number, if previously assigned.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: ☒ DRILL ☐ DEEPEN (Below Casing) ☐ DEEPEN (Within Casing) ☐ PLUG BACK ☐ OTHER (Specify) _____

If Amended Application, explain fully in Remarks or Attach Separate Page.

1. Operator
Exxon Corporation 23789

2. Address (Including City and Zip Code)
Wilson Tower
Corpus Christi, TX 78476

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES ☒ NO ☐ (Instruction (2) on back side.)

4. Lease Name and RRC Lease or ID No. (If Assigned)
Laura T. Barrow "B"

5. Location (Sec., Blk., Survey)
Miguel De Los Santos Survey

6. This well is to be located 11.3 miles East Direction from Skidmore, TX Nearest Post Office or Town.

7. RRC District
2

8. County
Bee

9. Well Number
28

10. Number of Acres in Lease
6287

11. Distance from Proposed Location to Nearest Property or Lease Line
3675'

12. Total Depth
5200'

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	14. Completion Depth	15. All Prior Rule 37 Exc. Case Number(s) for this wellbore, if any. State None.	16. Applicable Field Rules Spacing Pattern. Use Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same field? (Yes or No. If yes explain in remarks.)	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. or same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested? OIL	GAS
52285 166											
Laura Thomson (4850)	4853	--	467-1200	40	40	No	3050	Regular 1 ☒ Rule 37 2 ☐	Gas	--	1
Wildcat above 00004001	5200	--	467-1200	40	40	No	--	Regular 1 ☒ Rule 37 2 ☐	Oil or Gas	--	--
								Regular 1 ☐ Rule 37 2 ☐			
								Regular 1 ☐ Rule 37 2 ☐			

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED:
A. Lease Lines 3675' from the southwest line and 7450' from the southeast line
B. Survey Lines 4475' from the south line and 5950' from the east line

25. (a) Is this wellbore subject to SWR 36? Yes ☐ No ☒
(b) If subject to SWR 36, has Form H-9 been filed? (If no, attach explanation.) ☐

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R.R.C. OF TEXAS
JUL 17 1979

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS: _____

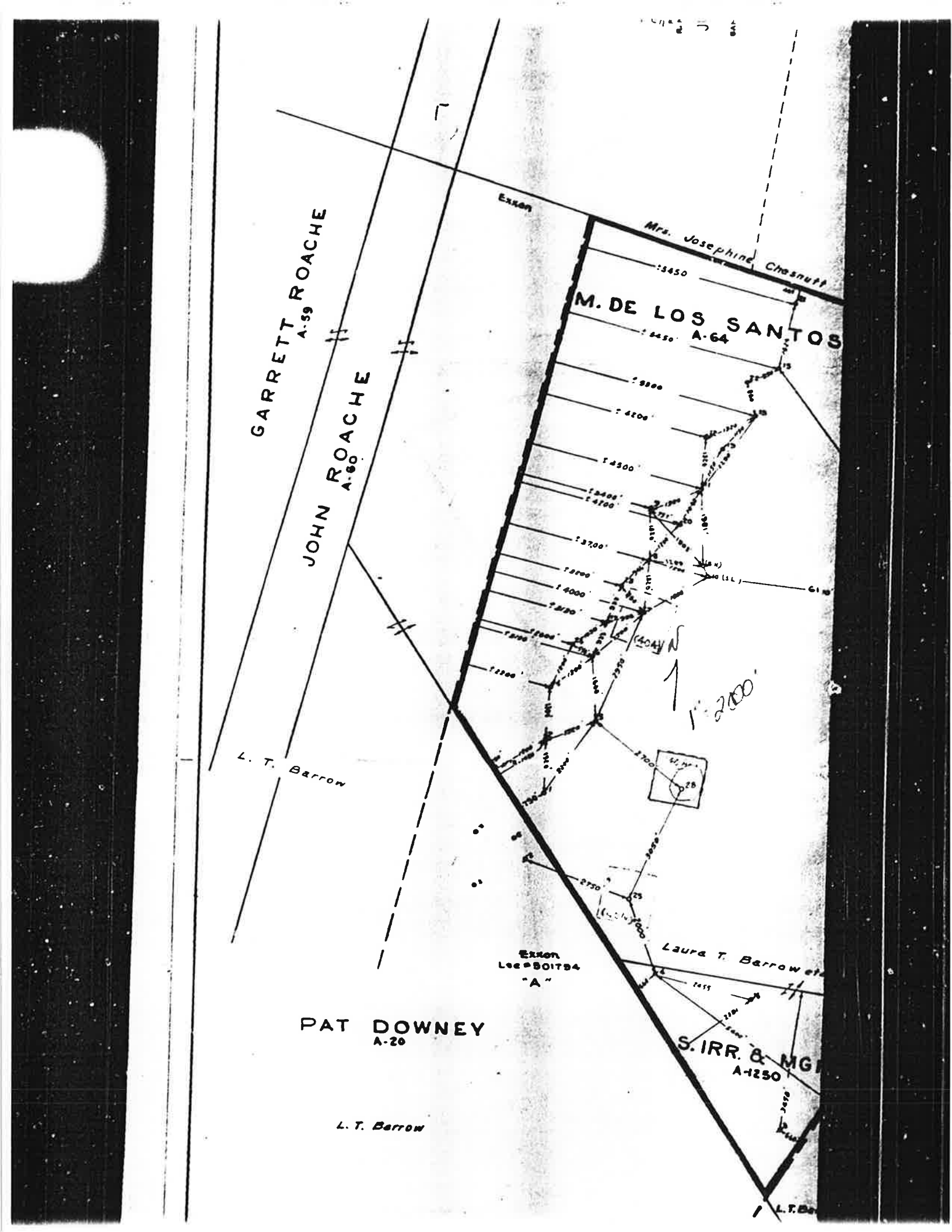
CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.

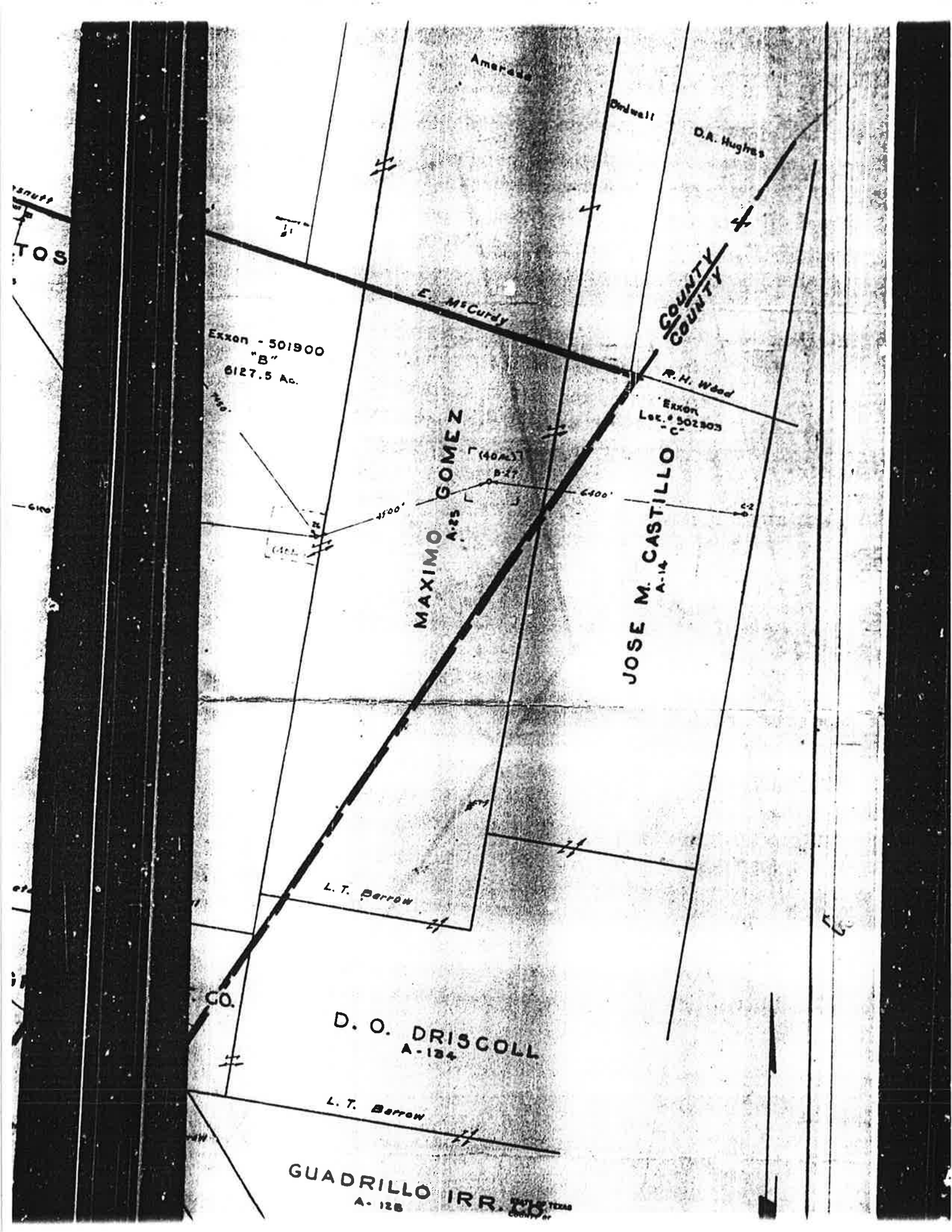
G F Presson
Signature
G. F. Presson, Proration Specialist
Title
July 16, 1979
Date
Telephone: Area Code 512 884-4571

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

00002601124

025 31144


GARRETT ROACHE
A-59
JOHN ROACHE
A-60
Exxon
Mrs. Josephine Chesnutt
M. DE LOS SANTOS
A-64
L. T. Barrow
Exxon
Lse #501794
"A"
Laura T. Barrow et
PAT DOWNEY
A-20
S. IRR. & MG
A-1250
L. T. Barrow
1" = 2000'


Amerada
Ordwell
D.A. Hughes
E. McCurdy
COUNTY
COUNTY
Exxon - 501900
"B"
6127.5 Ac.
R.H. Wood
Exxon
Lse. # 502303
"C"
MAXIMO GOMEZ
A-23
JOSE M. CASTILLO
A-14
L.T. Barrow
D. O. DRISCOLL
A-134
L.T. Barrow
GUADRILLO IRR.
A-126

MAP ID #109

API# 42-025-01556
OIL WELL
PLUGGED

~~02093~~ 01556

Plugging Record 00907 RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

(109)

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

2 FIELD NAME (as per RRC Records): LAURA THOMSON 15600 No. 41

3 LEASE NAME: LAURA T. BARRON 'B'

4 RRC Lease or Lt. Number: 02407

5 Well Number: 1

6 OPERATOR: EXXON CORPORATION

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

8 SURFACE LOCATION: 750 FEET FROM NE of SW LINE, AND 10205 FEET FROM NW of SE LINE

9 SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS GRANT (A-64)

10 County: BEE

11 Date Drilling Permit Issued: 9-25-61

12 Date Drilling Commenced: 9-27-61

13 Date Drilling Completed: 10-6-61

14 Date Well Plugged: 8-16-73

15 Type of Well (Oil, Gas, Dry)*: OIL

16 Type of Completion (Single, Dual, Etc.): SINGLE

17 Total Depth: 5700

18 FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19 Manner of Placement

PLUG #1	5	SACKS	TOP	5430	BOTTOM	5580	TYPE CLASS H
PLUG #2	5	SACKS	TOP	1336	BOTTOM	1448	TYPE CLASS H
PLUG #3	15	SACKS	TOP	30	BOTTOM	570	TYPE CLASS H
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21 How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23 Depth of Deepest Fresh Water: 1100 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25 If NO, Explain

26 Name and Address of Party Plugging Well: CULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901

27 Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
* 8 5/8" + 9 5/8"	510.17		506.17	
** 2 7/8"	5682.07		5678.07	

* 8 5/8" CASING CEMENTED TO SURFACE.
** 2 7/8" CASING - MULTI STAGE TOOL SET @ 1411' AND CEMENT CIRCULATED TO SURFACE.

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS & COMPANY, BOX 1490, ALICE, TEXAS 78332

29 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST — TITLE

8-31-73 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

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RAILROAD COMMISSION OF TEXAS
SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS Casing cut off 4' below ground level and well capped.

0 0 0 0 7 3 0 9 4 6

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): LAURA HODGSON 15600 No. 41	*2. RRC District: 2
*3. Operator: Exxon Corporation	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): LAURA HODGSON B 02907	*6. Well Number: B-1
*7. Location (Section, Block, and Survey): M. de Los Santos Grant (A-44)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/16/73	8/16/73	8/16/73			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"	2-7/8"			
*21. Depth to Bottom of Tubing or Drill Pipe	5580'	1488'	570'			
22. Sacks of Cement Used (each plug)	5	5	15			
23. Slurry Volume Pumped (cu. ft.)	5.9	5.9	17.7			
24. Calculated Top of Plug (ft.)	5430'	1336'	30'			
*25. Measured Top of Plug (if tagged) (ft.)						

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RAILROAD COMMISSION OF TEXAS
SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

Lobo 6

26. Remarks:
Circ well w 9.5# mud.
Cut off 4' below grd level, capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J. W. Culberson, Jr.
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr., Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 22, 1973
Date

*OPERATOR

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-31-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 7-1-66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (as per RRC Records or Wildcat) Laura Thomson (5600' #4)	2. LEASE NAME Laura T. Barrow 'B'	7. RRC District 2
3. OPERATOR Humble Oil & Refining Company		8. RRC Lease Number 02907
4. ADDRESS Wilson Tower, Corpus Christi, Texas, 78401		Well Number 1
5. If Operator has changed within last 60 Days -- Give former Operator --		10. County Bee
6. LOCATION (Section, Block, and Survey) M. De Los Santos (A-64)		11. Purpose of Test: Initial Potential ☐ Retest ☒ Recless ☐
12. If Workover --Give former Field (with Reservoir) -	13. Type of Electric or other Log run -	14. Completion Date -

Section I — POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump)	18. Choke Size
3-21-68	24	Gas Lift	None

	Oil - BBLS	Gas - MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19. Production for Test Period	36	24	127	667	200 PSI
20. Calculated 24 Hour Rate	36	24	127	Oil Gravity - API - 60° 34.5	Casing Pressure 775 PSI

21. Was Swab or Artificial Flowing Device Used During this Test? Yes ☒ No ☐
22. Oil Produced Prior to Test (New & Reworked Wells)
23. Injection Gas-Oil Ratio 3111

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

M. D. McNair
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified: None

Date of Notification:

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R. H. Bomar — REPRESENTATIVE OF COMPANY
Supervisor — TITLE
3-26-68 — DATE

REMARKS

R.T. #1 @ 73# EPP 3-24-68

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

25. Date Permit Issued

26. Notice of Intention to Drill this Well was filed in Name of

27. If Special Permit, Give Permit Number

28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well

29. Total Number of Acres in this Lease

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced | Completed

31. Distance to Nearest Well, Same Lease & Reservoir

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: _____ Feet From _____ Line of The _____ Line And _____ Feet From _____ Lease

33. Elevation (DF, RKB, RT, GR, ETC)

34. Was Directional Survey Made: Yes ☐ No ☐

35. Top of Pay | 36. Total Depth | 37. P.B. Depth | 38. Surface Casing Determined By: Recommendation of Texas Water Development Board ☐ Field Rules ☐ Railroad Commission (Special) ☐

39. Is Well Multiple Completion? Yes ☐ No ☐

40. If Multiple Completion List All Reservoir Names (Completions in this Well)

41. Intervals Drilled By: Rotary Tools | Cable Tools

42. Name of Drilling Contractor

43. Is Cementing Affidavit Attached? Yes ☐ No ☐

44. CASING RECORD (Report All Strings Set in Well)

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled

45. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

46. TUBING RECORD

Size	Depth Set	Packer Set

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From	To	
From	To	
From	To	
From	To	

48. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

49. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

00034 1777

Form W-2
Rev. 7/5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District	2
8. RRC Lease Number	02907
9. Well Number	1
10. County	BEE
11. Purpose of Test	Initial Potential ☐ Retest ☒ Reclass ☐
14. Completion Date	

1. FIELD NAME (as per RRC Records or Wildcat): LAURA THOMSON (5600 No. 4)
2. LEASE NAME: LAURA T. BARROW 'B'
3. OPERATOR: HUMBLE OIL & REFINING COMPANY
4. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
5. If Operator has changed within last 60 Days -- Give former Operator
6. LOCATION (Section, Block, and Survey): M. DE LOS SANTOS (A-64)
12. If Workover -- Give former Field (with Reservoir)
13. Type of Electric or other Log run

Section I — POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump)	18. Choke Size
2-18-70	24	GAS LIFT	NONE

	Oil - BBLS	Gas - MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19. Production for Test Period	32.0	44	183	1375	120 PSI
20. Calculated 24 Hour Rate	32.0	44	183	Oil Gravity - API - 60° 34.5	Casing Pressure 763 PSI

21. Was Swab or Artificial Flowing Device Used During this Test?	22. Oil Produced Prior to Test (New & Reworked Wells)	23. Injection Gas-Oil Ratio
Yes ☒ No ☐	58	3188

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

[signature] M. D. McNAIR
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified:

Date of Notification:

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

M E Hunt — M. E. HUNT — SUPERVISOR — RECEIVED R.R.C. OF TEXAS — 2-24-70
REPRESENTATIVE OF COMPANY — TITLE — DATE

REMARKS: SERVICED GAS LIFT EQUIPMENT

FEB 25 1970
O.C.
SAN ANTONIO, TEXAS

R.T. # 1 C 47# EFF 2-16-70

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

25. Date Permit Issued

26. Notice of Intention to Drill this Well was filed in Name of

27. If Special Permit, Give Permit Number

28. Number of Producing Wells on this Lease in This Field (Reservoir) Including this Well

29. Total Number of Acres in this Lease

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced | Completed

31. Distance to Nearest Well, Same Lease & Reservoir

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: ____ Feet From ____ Line of The ____ Line And ____ Feet From ____ Lease

33. Elevation (DF, RKB, RT, GR, ETC.)

34. Was Directional Survey Made: Yes ☐ No ☐

35. Top of Pay | 36. Total Depth | 37. P.B. Depth | 38. Surface Casing Determined By: | Recommendation of Texas ____ Water Development Board ____ | Field Rules ____ | Railroad Commission (Special) ☐

39. Is Well Multiple Completion: Yes ☐ No ☐ | 40. If Multiple Completion List All Reservoir Names (Completions in this Well:)

41. Intervals Drilled By: Rotary Tools | Cable Tools

42. Name of Drilling Contractor

43. Is Cementing Affidavit Attached? Yes ☐ No ☐

44. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled

45. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

46. **TUBING RECORD**

Size	Depth Set	Packer Set

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From	To
From	To
From	To
From	To

48. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used

49. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth

REMARKS _____

MAP ID #110

API# 42-025-01566
GAS WELL
PLUGGED

(110)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1 67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
2. RRC Lease Number: 02847
3. LEASE NAME: LAURA T. BARROW
4. Well Number: 4
5. FIELD NAME (as per RRC Records): LAURA THOMSON (5600 No. 4)
6. OPERATOR: HUMBLE OIL & REFINING COMPANY
7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
8. SURFACE LOCATION: 1270 FEET FROM SW OF NE LINE, AND 1688 FEET FROM E OF W LINE
9. SECTION, BLOCK AND SURVEY: PAT DOWNEY (A-20)
10. County: BEE
11. Date Drilling Permit Issued: 6-13-61
12. Date Drilling Commenced: 6-16-61
13. Date Drilling Completed: 6-29-61
14. Date Well Plugged: 7-21-71
15. Type of Well (Oil, Gas, Dry): OIL
16. Type of Completion (Single, Dual, Etc.): SINGLE
17. Total Depth: 6070
18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING COMPANY
19. Manner of Placement

PLUG #1	8	SACKS	TOP 5330	BOTTOM 5546	15	TYPE	CLASS A
PLUG #2	1	SACKS	TOP 5	BOTTOM 50		TYPE	CLASS A
PLUG #3	13	SACKS	TOP 5	BOTTOM		TYPE	CLASS A
PLUG #4		SACKS	TOP	BOTTOM		TYPE	

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES X NO
21. How was Mud applied? PUMP
22. Mud Weight: 10.0 LBS/GAL
23. Depth of Deepest Fresh Water: 1200 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO
25. If NO, Explain
26. Name and Address of Party Plugging Well: FISH OIL WELL SERVICING COMPANY, P.O. BOX 1057, BEEVILLE, TEXAS 78102
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	517.40		517.40	
2 7/8"	6047.52		6047.52	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

RECEIVED
R.R.C. OF TEXAS
JAN 10 1972
O.G.
SAN ANTONIO, TEXAS

29. Was Notice given before Plugging to each of the above and RRC District Office? YES X NO

CERTIFICATE:

I declare under penalties prescribed in Article 6033, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Cagle — REPRESENTATIVE OF COMPANY
PRORATION SPECIALIST — TITLE
1-6-72 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

14(B)2 Concealed

DR-38

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☒ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) LAURA THOMSON (5600 No. 4)	*2. RRC District 2
*3. Operator HUMBLE OIL + REFINING COMPANY	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA T. BARRON 02847	*6. Well Number 4
*7. Location (Section, Block, and Survey) PAT DOWNEY (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING Single String	PRODUCTION CASING Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS Tool	MULTI-STAGE CEMENTING PROCESS Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

RECEIVED
R.R.C. OF TEXAS
JAN 10 1972
O.G.
SAN ANTONIO, TEXAS

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	7-19-71	7-21-71	7-21-71			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8"Csg	27/8	27/8X95/8			
*21. Depth to Bottom of ~~XXXXXXXXXXXX~~ Plug	5546	15'	50	No casing pulled		
22. Sacks of Cement Used (each plug)	8	1	13			
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)	5330	5	5			
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

— OVER —

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

2-02847

26. Remarks:	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036a, R.C.S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Signature of Cementer or Authorized Representative

Howard E. Fish, President

Name of Person and Title (type or print)

Fish Oil Well Servicing Co.

Cementing Company

P. O. Box 1057

Street Address or P.O. Box

Beeville, Texas 78102

City, State Zip Code

Telephone 512 (Area Code) 358-2505

11-27-71

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036a, R.C.S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

HUMBLE OIL & REFINING CO.

*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

*City, State Zip Code

*Telephone 512 (Area Code) 884-4571

1-6-72

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 7 5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD Name (as per RRC Records or Wildcat): Laura Thomson (5600 No. 4)
2. LEASE NAME: Laura T. Barrow
3. OPERATOR: Humble Oil & Refining Company
4. ADDRESS: Wilson Tower, Corpus Christi, Texas
5. If Operator has changed within last 30 Days — Give former Operator:
6. LOCATION (Section, Block, and Survey): Pat Downey (A-20)
7. RRC District: 2
8. RRC Lease Number: 02847
9. Well Number: 4
10. County: Bee
11. Purpose of Test: Initial Potential ☐ Retest ☒ Reclass ☐
12. (If Workover — Give former Field with Reservoir):
13. Type of Electric or other Log run:
14. Completion Date: 6-29-61

Section I — POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping — Size & Type of Pump)	18. Choke Size
5-5-68	24	Gas Lift	1/4

	Oil – BBLS	Gas – MCF	Water – BBLS	Gas – Oil Ratio	Flowing Tubing Pressure
19. Production for Test Period	28 61	54	12	1928	100 PSI
20. Calculated 24 Hour Rate	28	54	12	Oil Gravity – API – 60° 37.3	Casing Pressure 640 PSI

21. Was Swab or Artificial Flowing Device Used During this Test? Yes ☒ No ☐
22. Oil Produced Prior to Test (New & Reworked Wells):
23. Injection Gas–Oil Ratio: 1786

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

M. D. McNair
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified:

NONE

Date of Notification:

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R. H. Bomar — REPRESENTATIVE OF COMPANY
Supervisor — TITLE
5-8-68 — DATE

REMARKS

Pat Downey #4 @ 10,000' 8-5-68

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

25. Date Permit Issued

26. Notice of Intention to Drill this Well was filed in Name of

27. If Special Permit, Give Permit Number

28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well

29. Total Number of Acres in this Lease

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced | Completed

31. Distance to Nearest Well, Same Lease & Reservoir

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: Feet From Line of The | Line And | Feet From Lease

33. Elevation (DF, RKB, RT, GR, ETC)

34. Was Directional Survey Made: Yes ☐ No ☐

35. Top of Pay | 36. Total Depth | 37. P.B. Depth | 38. Surface Casing Determined By: Recommendation of Texas Water Development Board ☐ Field Rules ☐ Railroad Commission (Special) ☐

39. Is Well Multiple Completion? Yes ☐ No ☐ | 40. If Multiple Completion List All Reservoir Names (Completions in this Well) | 41. Intervals Drilled By: Rotary Tools | Cable Tools

42. Name of Drilling Contractor

43. Is Cementing Affidavit Attached? Yes ☐ No ☐

44. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled

45. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

46. **TUBING RECORD**

Size	Depth Set	Packer Set

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From To

From To

From To

From To

48. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used

49. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth

REMARKS

RAIL[redacted]D COMMISSION OF TEXAS
OIL AND GAS DIVISION

1774

Form W-2
Rev. 7/5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District	2
8. RRC Lease Number	02847
9. Well Number	4
10. County	Bee
11. Purpose of Test	Initial Potential ☐ Retest ☒ Recless ☐
1. FIELD NAME (as per RRC Records or Wildcat)	Laura Thomson (5600' No. 4)
2. LEASE NAME	Laura T. Barrow
3. OPERATOR	Humble Oil & Refining Company
4. ADDRESS	Wilson Tower, Corpus Christi, Texas
5. If Operator has changed within last 60 Days — Give former Operator	--
6. LOCATION (Section, Block, and Survey)	Pat Downey (A-20)
12. If Workover — Give former Field (with Reservoir)	-
13. Type of Electric or other Log run	-
14. Completion Date	-

Section I

POTENTIAL TEST DATA

15. Date of Test	16. No. of Hours Tested	17. Production Method (Flowing, Gas Lift, Jetting, Pumping – Size & Type of Pump)	18. Choke Size
8-14-68	24	Gas Lift	.0826

19. Production for Test Period	Oil – BBLS	Gas – MCF	Water – BBLS	Gas – Oil Ratio	Flowing Tubing Pressure
	~~68~~ 152	130	21	1,912	120 PSI

20. Calculated 24 Hour Rate	Oil – BBLS	Gas – MCF	Water – BBLS	Oil Gravity – API – 60°	Casing Pressure
	68	130	21	37.3	680-670 PSI

21. Was Swab or Artificial Flowing Device Used During this Test?	22. Oil Produced Prior to Test (New & Reworked Wells)	23. Injection Gas–Oil Ratio
Yes ☐ No ☐		1,897

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

C. J. Stine
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified:

NONE

Date of Notification:

CERTIFICATE:
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

R. H. Bomar — R. H. Bomar — Supervisor — 8-19-68
REPRESENTATIVE OF COMPANY — TITLE — DATE

REMARKS

R.T. #4 @ 102 EFF 8-14-68 + 80

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☐

25. Date Permit Issued

26. Notice of Intention to Drill this Well was filed in Name of

27. If Special Permit, Give Permit Number

28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well

29. Total Number of Acres in this Lease

30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced | Completed

31. Distance to Nearest Well, Same Lease & Reservoir

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: ____ Feet From ____ Line of The ____ Line And ____ Feet From ____ Lease

33. Elevation (DF, RKB, RT, GR, ETC)

34. Was Directional Survey Made: Yes ☐ No ☐

35. Top of Pay | 36. Total Depth | 37. P.B. Depth | 38. Surface Casing Determined By: Recommendation of Texas Water Development Board ☐ Field Rules ☐ Railroad Commission (Special) ☐

39. Is Well Multiple Completion? Yes ☐ No ☐

40. If Multiple Completion List All Reservoir Names (Completions in this Well)

41. Intervals Drilled By: Rotary Tools | Cable Tools

42. Name of Drilling Contractor

43. Is Cementing Affidavit Attached? Yes ☐ No ☐

44. **CASING RECORD (Report All Strings Set in Well)**

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled

45. **LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen

46. **TUBING RECORD**

Size	Depth Set	Packer Set

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From ____ To ____

From ____ To ____

From ____ To ____

From ____ To ____

48. **ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used
5546-5552'	10,000 Gal. Lease Crude & 5500# 20-40 Sand

49. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth

REMARKS

MAP ID #111

API# 42-025-01568
DUEL GAS WELL
PLUGGED

01568 (111)

CORRECTED REPORT

Plugging Record 00007 RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4. RRC Lease Id. Number: 0284

2. FIELD NAME (as per RRC Records): LAURA THOMSON 15600 No.4 | 15600 No.3

3. LEASE NAME: LAURA T. BARROW

6-T + C

5. OPERATOR: EXXON CORPORATION

10 County: Bee

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11. Date Drilling Permit Issued: 8-28-61

8. SURFACE LOCATION: 539 FEET FROM SW OF NE LINE, AND 2300 FEET FROM E OF NORTHERLY W LINE

12. Date Drilling Commenced: 8-29-61

9. SECTION, BLOCK, AND SURVEY: PAT DOWNEY (A-29)

13. Date Drilling Completed: 9-14-61

15. Type of Well (Oil, Gas, Dry)*: OIL

16. Type of Completion (Single, Dual, Etc.): DUAL

17. Total Depth: 5700

14. Date Well Plugged: 9-10 73

18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19. Manner of Placement

PLUG #1	5	SACKS	TOP 5397	BOTTOM 5547	TYPE CLASS H
PLUG #2	15	SACKS	TOP 4	BOTTOM 581	TYPE CLASS H
PLUG #3		SACKS	TOP	BOTTOM	TYPE
PLUG #4		SACKS	TOP	BOTTOM	TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23. Depth of Deepest Fresh Water: 1200 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25. If NO, Explain:

26. Name and Address of Party Plugging Well: CULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
7 5/8"	523.93		514.93	
2 1/8"	5678.06		5674.06	
1 1/4" & 1"	5555.82		1490.72	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS + COMPANY, BOX 1490, ALICE, TEXAS

29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST — TITLE

2-21-74 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

RECEIVED R. R. C. OF TEXAS FEB 22 1974

30, For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS CORRECTED LEASE CODE NUMBER.

0 0 0 0 7 3 0 9 0 2

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-67)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson /5600 No.4/ + /5600 No.3/	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County Dam
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA T. BARRON 02847	*6. Well Number 6-T + C
*7. Location (Section, Block, and Survey) PAT DENNEY (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/10/73	8/10/73			RECEIVED R. R. C. OF TEXAS	
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"			FEB 22 1974	
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5547'	581'			[illegible]	
22. Sacks of Cement Used (each plug)	5	15				
23. Slurry Volume Pumped (cu. ft.)	5.9	17.7			RECEIVED R. R. C. OF TEXAS	
24. Calculated Top of Plug (ft.)	5397'	4'				
*25. Measured Top of Plug (if tagged) (ft.)					AUG 28 1974	

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

OPERATOR'S COPY

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:

Circ well w 9.5# mud.
Cut csg off 4' below grd level & capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

W. Culberson

Signature of Cementer or Authorized Representative

J. W. Culberson, President
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 13, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-23-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally required in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

01568

Plugging Record 00007

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
4. RRC Lease or Id. Number: 02907
2. FIELD NAME (as per RRC Records): LAURA THOMSON 15600 No. 41
3. LEASE NAME: LAURA T. BARRON
5. Well Number: 6
6. OPERATOR: EXXON CORPORATION
10. County: BEE
7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
11. Date Drilling Permit Issued: 8-28-61
8. SURFACE LOCATION: 539 FEET FROM SW OF NE LINE, AND 2300 FEET FROM E OF NORTHERLY W LINE
12. Date Drilling Commenced: 8-29-61
9. SECTION, BLOCK, AND SURVEY: PAT DOWNEY (A-20)
13. Date Drilling Completed: 9-14-61
15. Type of Well (Oil, Gas, Dry)*: OIL
16. Type of Completion (Single, Dual, Etc.): SINGLE
17. Total Depth: 5700
14. Date Well Plugged: 8-10-73
18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19. Manner of Placement

PLUG #1	5	SACKS	TOP	5397	BOTTOM	5547	TYPE Class H
PLUG #2	15	SACKS	TOP	4	BOTTOM	581	TYPE Class H
PLUG #3		SACKS	TOP		BOTTOM		TYPE
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]
21. How was Mud applied? POWER PUMP
22. Mud Weight: 9.5 LBS/GAL
23. Depth of Deepest Fresh Water: 1200 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]
25. If NO, Explain:
26. Name and Address of Party Plugging Well: CULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
7⅝"	523.93		519.93	
2⅞"	5678.06		5674.06	
1¼ + 1½"	5555.82		1490.72	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS + COMPANY, BOX 1490, ALICE, TEXAS 78332
29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — PRORATION SPECIALIST — 8-23-73

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

RECEIVED
R.R.C. OF TEXAS
AUG 28 1973
SAN ANTONIO, TEXAS

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS _____

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson	*2. RRC District 2
*3. Operator Exxon CORPORATION	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA THOMSON 02907	*6. Well Number 6
*7. Location (Section, Block, and Survey) PAT DONNEY (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8 Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/10/73	8/10/73				
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5547'	581'				
22. Sacks of Cement Used (each plug)	4	15				
23. Slurry Volume Pumped (cu. ft.)	5.9	17.7				
24. Calculated Top of Plug (ft.)	5397'	4'				
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. OF TEXAS
AUG 26 1973
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

26. Remarks:
Circ well w 9.5# mud.
Cut csg off 4' below grd level & capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J. W. Culberson

Signature of Cementer or Authorized Representative

J.W. Culberson, President
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 13, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Brady Coyle

*Signature of Operator or Authorized Representative

BRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-23-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

MAP ID #112

API# 42-025-01567
OIL WELL
PLUGGED

(112)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. (if available) 025-01567

1 RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or Id. Number: 07800

2. FIELD NAME (as per RRC Records): Thomson, Laura (5600 #3 [illegible])

3. Lease Name: Laura T. Barrow "B" 88

5. Well Number: 5

6. OPERATOR: Mueller Engineering Corp.

6a. Original Form W-1 Filed in Name of: Humble Oil & Refining Co.

10 County: Bee

7. ADDRESS: 1010 Tower II, Corpus Christi, TX 78478

6b. Any Subsequent W-1's Filed in Name of: Mueller Engineering Corp.

11 Date Drilling Permit Issued: 11-16-62

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 3200 Feet From SW Line and 600 Feet From SE Line of the L. T. Barrow "B" Lease

12. Permit Number: 375396

9a. SECTION, BLOCK, AND SURVEY: M. De Los Santos A-64

9b Distance and Direction From Nearest Town in this County: 16 miles SE from Beeville

13 Date Drilling Commenced: 11-21-62

16. Type Well (Oil, Gas, Dry): Oil

Total Depth: 6200

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil - O Gas-G	WELL #

14. Date Drilling Completed: 12-21-62

18. If Gas, Amt. of Cond. on Hand at time of Plugging:

15. Date Well Plugged: 10/12/98

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	10-9	10-9	10-9*	10-9*	10-12*			
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8	2 7/8	2 7/8	2 7/8	2 7/8			
21 Depth to Bottom of Tubing or Drill Pipe (ft.)	5200	1748	925	572	13	* 2 7/8"&	2 7/8"	x 8 5/8"
*22 Sacks of Cement Used (each plug)	10	12	25	25	5			
*23 Slurry Volume Pumped (cu. ft.)	11.8	14.16	29.50	29.50	5.9			
*24. Calculated Top of Plug (ft.)	4900	1300	825	472	3			
25. Measured Top of Plug (if tagged) (ft.)	-	-	-	-	-			
*26 Slurry Wt. #/Gal.	15.6	15.6	15.6	15.6	15.6			
*27. Type Cement	H	H	H	H	H			

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE(in.)
5/8	26.40	522	519	12 1/4
7/8	6.5	6181	6178	6 1/2
.V.	Tool @	1698	-----	6 1/2

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

RECORD CODIFICATION
DEC 03 1998

Return to Records Retention

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 5540	TO 5550	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Signature of Cementer or Authorized Representative

Pat's P & A, Inc.
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Arlene Judd — REPRESENTATIVE OF COMPANY

Admin. Asst. — TITLE

10/16/98 — DATE

Phone 512/883-1911 — NUMBER

Arlene Judd
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R.R.C. OF TEXAS
OCT 19 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

14 2

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? Circulated thru workstring

33. Mud Weight: 10.0 LBS/GAL

34. Total Depth: 6200

Depth of Deepest Fresh Water: 1400

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM
0	875

35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: Pat's P & A, Inc. P.O. Box 0126, Bishop, TX 78343

Date RRC District Office notified of plugging: 10/9/98

38. Name(s) and Address(es) of Surface Owners of Well Site

Mr. Thomas D. Barrow
5847 San Felipe, Suite 3830
Houston, Texas 77057

39. Was Notice Given Before Plugging to the Above?

yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Notified Helmuth Schneider w/RRC on plugs. Plug #3 - Perforated 2 7/8" csg. @ 925'. Unable to circulate. Squeezed 25 sx. - Leaving 3 sx. in 2 7/8" and 22 outside perforations in 2 7/8" x 6 1/2" annulus. Plug #4 - Perforated 2 7/8" csg. @ 572'. Squeezed 25 sx. cmt. Established circulation up 2 7/8" x 8 5/8" annulus while squeezing plug.

Type or print only

RECEIVED
RRC OF TEXAS
JUN 25 1992
OG
SAN ANTONIO, TX

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

52287198

Form W-2
Rev. 4/1/83
483-046

API No. 42-025-01567

7. RRC District No. 02

8. RRC Lease No 02800

Oil Well Potential Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat): LAURA THOMSON (5600 #3 SD)
2. LEASE NAME: LAURA T. BARROW "B"-88
9. Well No.: 5
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP
RRC Operator No: 592645
10. County of well site: BEE
4. ADDRESS: 1010 FIRST CITY TOWER II CORPUS CHRISTI TX 78478-0501
5. If Operator has changed within last 60 days, name former operator
6a. Location (Section, Block, and Survey): M. DE LOS SANTOS A-64
6b Distance and direction to nearest town in this county: 16 MILES SE FROM BEEVILLE
12. If workover or reclass, give former field (with reservoir) & gas ID or oil lease no.
FIELD & RESERVOIR: LAURA THOMSON (5600 #3 SD)
GAS ID or OIL LEASE #: 135332
Oil - O Gas - G: G
WELL NO.: 5
13. Type of electric or other log run: N/A
14. Completion or recompletion date: N/A (Re-Classification)

11. Purpose of filing
- Initial Potential [ ]
- Retest [ ]
- Reclass [X]
- Well record only (explain in Remarks) [ ]

RECORD MODIFICATION
AUG 19 1992

NEED P-4

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15. Date of test	16. No of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)	18. Choke size
06/20/92	24	Flowing	10/64"

	Oil - BBLS	Gas — MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19. Production during Test Period ▶	130	200	0	1.54	850 PSI
20 Calculated 24-Hour Rate ▶	130	200	0	Oil Gravity—API—60° 36.8	Casing Pressure 0 PSI

21. Was swab used during this test? Yes [ ] No [X]
22 Oil produced prior to test (New & Reworked wells): N/A
23. Injection Gas—Oil Ratio: 0

REMARKS:

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature: Well Tester [signature] Mueller Engineering — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Nancy Squyres
Typed or printed name of operator's representative

Production Analyst
Title of Person

512 883-1911 — Telephone: Area Code Number
Date: 06 / 24 / 92 (mo. day year)

Signature [signature]

FDP 7/7/92

SECTION II — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

ok GH

24. Type of Completion:
New Well ☐ Deepening ☐ Plug Back ☐ Other ☒ Re-Class

25 Permit to Drill, Plug Back or Deepen — DATE — PERMIT NO. 375396
Rule 37 Exception — CASE NO
Water Injection Permit — PERMIT NO
Salt Water Disposal Permit — PERMIT NO
Other — PERMIT NO.

26 Notice of Intention to Drill this well was filed in Name of
MUELLER ENGINEERING CORP.

27 Number of producing wells on this lease in this field (reservoir) including this well: 1

28 Total number of acres in this lease:

29. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced | Completed

30 Distance to nearest well, Same Lease & Reservoir: N/A

31 Location of well, relative to nearest lease boundaries of lease on which this well is located: 3200 Feet From SW Line and 600 Feet from SE Line of the Laura T. Barrow "B" Lease

32. Elevation (DF, RKB, RT, GR, ETC.):

33. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☒ No

34. Top of Pay	35. Total Depth	36 P. B Depth	37 Surface Casing Determined by
5540'	6200'	5560'	Field Rules ☐ / Recommendation of T D W.R. ☐ / Railroad Commission (Special) ☒

Dt of Letter / Dt. of Letter 1962

38. Is well multiple completion? No

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
N/A			

40 Intervals Drilled by: — Rotary Tools: N/A — Cable Tools:

41. Name of Drilling Contractor: N/A

42 Is Cementing Affidavit Attached? ☐ Yes ☒ No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
7-5/8"	24#	516'	--	125sx + Gel	12-1/4"	Surface	
2-7/8"	6.5#	6184'	--	250sx + Gel	6-1/2"	Surface	

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From	5540'	To	5542'
From		To	
From		To	
From		To	

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS

Type or print only

RECEIVED R.R.C. OF TEXAS

JUN 2 6 1992

AUSTIN, TEXAS

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-2
Rev. 4/1/83
483-046

Oil Well Potential Test, Completion or Recompletion Report, and Log

API No. 42-025-01567

7. RRC District No. 02

8. RRC Lease No. 07800

1 FIELD NAME (as per RRC Records or Wildcat): LAURA THOMSON (5600 #3 SD)

2. LEASE NAME: LAURA T. BARROW "B"-88

9 Well No. 5

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): MUELLER ENGINEERING CORP

RRC Operator No. 592645

10 County of well site: BEE

4 ADDRESS: 1010 FIRST CITY TOWER II CORPUS CHRISTI TX 78478-0501

11 Purpose of filing
- Initial Potential [ ]
- Retest [ ]
- Reclass [X]
- Well record only (explain in Remarks) [ ]

5 If Operator has changed within last 60 days, name former operator

6a. Location (Section, Block, and Survey): M. DE LOS SANTOS A-64

6b Distance and direction to nearest town in this county.: 16 MILES SE FROM BEEVILLE

12. If workover or reclass, give former field (with reservoir) & gas ID or oil lease no. FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL NO.
LAURA THOMSON (5600 #3 SD)	135332	G	5

13. Type of electric or other log run: N/A

14. Completion or recompletion date: N/A (Re-Classification)

6/1/92

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15. Date of test	16 No of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)	18 Choke size
06/20/92	24	Flowing	10/64"

	Oil - BBLS	Gas — MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19. Production during Test Period ▶	130	200	0	1.54	850 PSI
20. Calculated 24-Hour Rate ▶	Oil - BBLS 130	Gas — MCF 200	Water — BBLS 0	Oil Gravity—API—60° 36.8	Casing Pressure 0 PSI

21. Was swab used during this test? Yes [ ] No [X]

22. Oil produced prior to test (New & Reworked wells): RECOMPLETION

23. Injection Gas—Oil Ratio 0

REMARKS:

SEP 29 1992

DIST TO BE STAMP 6/25/92

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge

Signature, Well Tester

Mueller Engineering
Name of Company

RRC Representative

OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Nancy Squyres
Typed or printed name of operator's representative

Production Analyst
Title of Person

512 883-1911
Telephone Area Code Number

Date: 06 / 24 / 92
mo. day year

Signature

9/18/92

OK Form

SECTION II — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☐ Other ☒ Re-Class

25. Permit to Drill, Plug Back or Deepen — DATE 7-13-90 — PERMIT NO. 575396
Rule 37 Exception — CASE NO
Water Injection Permit — PERMIT NO
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO

26. Notice of Intention to Drill this well was filed in Name of
MUELLER ENGINEERING CORP.

27. Number of producing wells on this lease in this field (reservoir) including this well
02

28. Total number of acres in this lease

29. Date Plug Back, Deepening, WorkOver or Drilling Operations — Commenced — Completed

30. Distance to nearest well, Same Lease & Reservoir
4700

31. Location of well, relative to nearest lease boundaries of lease on which this well is located
3200 Feet From SW Line and 600 Feet from SE Line of the Laura T. Barrow "B" Lease

32. Elevation (DF, RKB, RT, GR, ETC.)

33. Was directional survey made other than inclination (Form W-12)? ☐ Yes ☒ No

34. Top of Pay	35. Total Depth	36 P. B. Depth	37. Surface Casing Determined by			
5540'	6200'	5560'	Field Rules ☐	Recommendation of T.D.W.R. ☐ Railroad Commission (Special) ☒	Dt. of Letter	Dt of Letter 1962

38. Is well multiple completion? No

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
N/A			

40. Intervals Drilled by — Rotary Tools N/A — Cable Tools

41. Name of Drilling Contractor
N/A

42. Is Cementing Affidavit Attached? ☐ Yes ☒ No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL cu. ft.
7-5/8"	24#	516'	--	125sx + Gel	12-1/4"	Surface	
2-7/8"	6.5#	6184'	--	250sx + Gel	6-1/2"	Surface	

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From	5540'	To	5542'
From		To	
From		To	
From		To	

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS

01567

011 0109

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

FIELD NAME: LAURA THOMSON (5600' #4 SAND) RRC DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: HUMBLE OIL + REFINING COMPANY
(Use Names you will use on your E.B. Report in reporting Production.)

NAME OF LEASE: LAURA T. BARRON B LEASE NUMBER: 02907 WELL NO. 5

ADDRESS: CORPUS CHRISTI, TEXAS (City and State) SECTION — BLOCK —

P. O. BOX NO. WILSON TOWER SURVEY M. DE LOS SANTOS ELEVATION 112' DF

COUNTY IN WHICH WELL IS LOCATED BEE Unit Designation — Ac. in Unit —

7 Miles NE direction from PAPALOTE, TEXAS nearest postoffice or town.

Date potential test commenced 11-9 19 65 Hour 7:45 A. M.

Date potential test completed 11-10 19 65 Hour 7:45 A. M.

Has this lease changed operating names within the last 60 days? NO If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? YES Date Log filed JANUARY, 1963

RTH 5 @ 5 #4 11/9 13

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg 460

Flowing pressure on tbg 75-100

Length of test 24 Hrs. 0 Mins.

Size choke NONE Make choke

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? NO

Is this well being jetted? YES

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? 6000

Data Necessary on Pumping Well

Make of Pumping unit

Length of stroke used

No. strokes per minute

Size working barrel

Length of test Hrs. Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size H.P. Pump Model

Pump Rating B.P.D. Total Fluid at Head

Setting Depth Tubing Size

Length of test Hrs. Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Oil producing during this test into TANK (Tank or Pit) Name of P.L. Connection HUMBLE PIPE LINE CO.

Date this well was last shot or acidized If Shot No. Quarts used If Acidized No. Gallons used

Barrels of oil produced from this well since shot or treatment to time this test was started
(Answer only if this Test was occasioned by shooting or treating this Well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test
(Applies to new and reworked wells only.)

Percent water produced during this test 98 Total depth of this well 6210 Ft.

Is this a test of a new well for which no previous allowable has been assigned? NO

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? YES

What is the 24-hour potential at which it is carried currently on proration schedule? 0 BBLS.

If this test is the result of a workover what was the nature of the job? —

Hour well completed 4:00 P. M. Date well completed DECEMBER 21 19 62

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
27132	1000	64.85	2	4	6	11	4	7	297		
						LESS BS+W			292		
						OIL			5		5

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24-hours) 5 (100% Tank. Tbl.)

GAS OIL RATIO OF THIS WELL IS 3000 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 36.9

(OVER)

0848—02907

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of HUMBLE OIL & REFINING COMPANY

Date "Drilling, Plug Back or Deepening Permit" was issued NOVEMBER 16, 1965

Is Location "REGULAR," or was "SPECIAL PERMIT" required? REGULAR

If special permit was secured what is permit number? —

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 13

Location of well, relative to lease boundaries of lease on which this well is located: *BELOW feet from ____ line and ____ feet from ____ line of the ____ lease

Size of surface casing 7 5/8" Number feet of surface casing set 506.20

Size of oil string 2 7/8" Number of feet of oil string run 6172.10

Type of tubing head McEVOY Type of Bradenhead McEVOY

Top of pay 5562 Ft. Total Depth 6210 Ft. Size tubing run 1 1/4"

Perforated from 5563 to 5567 No. Shots 8 No. ft. tubing run 3953.37

Kind of fuel used to drill this well: BUTANE Amt. of fuel used —

Where fuel was secured FURNISHED BY CONTRACTOR

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test:

[signature] Representative of Company making test

NOT AVAILABLE Representative of Offset Operator for HARKINS AND COMPANY Offset Operator

Pipe Line Gauger for HUMBLE PIPE LINE COMPANY Pipe Line Company

Representative of the Railroad Commission ____

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

[signature] J. B. BEST JR. Representative of Company making test for HUMBLE OIL & REFINING COMPANY Company making test

SWORN TO AND SUBSCRIBED before me this the 1st day of [illegible], 19[illegible]

(Notary Seal)

Notary Public in and for ____ County, Texas

REMARKS: "LOCATION; 10,185' NW OF THE SE LINE (BEE-REFUGIO COUNTY LINE); ALSO BEING 1320' NE OF LAURA T BARRON "B" #2 AND 2200' NE OF LAURA T. BARRON "B" #1

0 1 1 0 1 1 0

This Form must be filed in District Office not later than ten days after date of completion of test or penalty enforced. Do not take test for period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL—DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in District Office
1-1958

FIELD NAME: LAURA THOMSON (5600' No. 4 SAND) RRC DISTRICT NUMBER: 2
(Use Field Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: HUMBLE OIL & REFINING COMPANY
(Use Names you will use on your E.B. Report in reporting Production.)

NAME OF LEASE: LAURA T. BARRON "B" LEASE NUMBER: 02907 WELL NO. 5

ADDRESS: CORPUS CHRISTI, TEXAS, 78401 (City and State) SECTION — BLOCK —

P. O. BOX NO. WILSON TOWER SURVEY M. DE LOS SANTOS (A-64) ELEVATION 112' DF

COUNTY IN WHICH WELL IS LOCATED BEE Unit Designation — Ac. in Unit —

7 Miles NE direction from PAPALOTE, TEXAS nearest postoffice or town.

Date potential test commenced 3-2, 19 64 Hour 9:30 A. M.

Date potential test completed 3-3, 19 64 Hour 9:30 A. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? YES Date Log filed JANUARY, 1963

DATA ON POTENTIAL TEST

RECEIVED

Data Necessary on Flowing Well

Flowing pressure on csg 525

Flowing pressure on tbg 60-70

Length of test 24 Hrs. 0 Mins.

Size choke NONE Make choke

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? No

Is this well being jetted? YES

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered? 4000

Oil producing during this test into TANK (Tank or Pit)

Date this well was last shot or acidized

Data Necessary on Pumping Well

Make of Pumping unit

Length of stroke used

No. strokes per minute

Size working barrel

Length of test Hrs. Mins.

Data Necessary for Bottom-Hole Centrifugal Pumping Wells

Motor Size H.P. Pump Model

Pump Rating B.P.D. Total Fluid at Head

Setting Depth Tubing Size

Length of test Hrs. Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Name of P.E. Connection THE PERMIAN CORP. (TRUCKS)

If Shot No. Quarts used | If Acidized No. Gallons used

Barrels of oil produced from this well since shot or treatment to time this test was started
(Answer only if this Test was occasioned by shooting or treating this Well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test
(Applies to new and reworked wells only.)

Percent water produced during this test 97 Total depth of this well 6210 Ft.

Is this a test of a new well for which no previous allowable has been assigned? NO

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? YES

What is the 24-hour potential at which it is carried currently on proration schedule? 0

If this test is the result of a workover what was the nature of the job?

Hour well completed 4:50 P. M. Date well completed DECEMBER 21, 19 63.

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBLS. PER FOOT	GAUGE LOW Feet	GAUGE LOW In.	GAUGE HIGH Feet	GAUGE HIGH In.	PRODUCTION COMPUTED Feet	PRODUCTION COMPUTED In.	PRODUCTION COMPUTED Bbls.	PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
27132	1000	64.85	3	0	7	8½	4	8½	305		
					LESS B S+W				297		
					OIL				8		8

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24-hours) 8 (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS 1250 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.I. 60 degrees) 36.9

RECEIVED
MAR 12 1964
O. C.
AUSTIN, TEXAS

(OVER)

02907 — 8780

DR

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of HUMBLE OIL & REFINING COMPANY

Date "Drilling, Plug Back or Deepening Permit" was issued NOVEMBER 16, 1962

Is Location "REGULAR," or was "SPECIAL PERMIT" required? REGULAR

If special permit was secured what is permit number? ——

Total number of acres in this lease 6127.5

Number of crude oil producing wells on this lease in this field, including the well in which this potential was taken 11

Location of well, relative to lease boundaries of lease on which this well is located: *BELOW feet from

line and ——— feet from ——— line of the ——— least

Size of surface casing 7 5/8" Number feet of surface casing set 506.20

Size of oil string 2 7/8" Number of feet of oil string run 6172.10

Type of tubing head McEVOY Type of Bradenhead McEVOY

Top of pay 5562 Ft. Total Depth 6210 Ft. Size tubing run 1 1/4"

Perforated from 5563 to 5567 No. Shots 8 No. ft. tubing run 3953.39

Kind of fuel used to drill this well BUTANE Amt. of fuel used ———

Where fuel was secured FURNISHED BY CONTRACTOR

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON, [illegible] shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed [illegible] the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days [illegible] receipt and acceptance [illegible] the office of the Deputy Supervisor. This tenday provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each [illegible] during duration of this test.

T. W. Jeffers
Representative of Company making test

——— for NONE
Representative of Offset Operator

[illegible]
Pipe Line Gauger

for THE PERMIAN CORPORATION
Pipe Line Company

Representative of the Railroad Commission ———

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas [illegible] were complied with and carried out in full, and that all data and facts set forth on both sides of this [illegible]

J. W. Bynum, Jr.
Representative of Company making test

for HUMBLE OIL & REFINING COMPANY
Company making test

SWORN TO AND SUBSCRIBED TO me this the 10TH MARCH 64

J. L. GALLOWAY
(Notary Seal)

J. L. Galloway
Notary Public in and for REFUGIO County, Texas

REMARKS: *LOCATION: 10,185' NW OF THE SE LINE OF THE LEASE (BEE-REFUGIO COUNTY LINE); ALSO BEING 1320' NE OF LAURA T. BARROW "B" #2 AND 2200' NE OF LAURA T. BARROW "B" #1.

MAP ID #113

API# 42-025-02108
OIL WELL
PLUGGED

(113)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

1769

Form W-3
Rev. 9/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
2. RRC Lease No. (as per RRC Records): LAURA THOMSON (5600 No.4)
3. Lease Name: LAURA T. BARROW
4. Well Number: 3
5. Operator's RRC Number: 02847
6. Operator: HUMBLE OIL & REFINING COMPANY
7. Address: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
8. Surface Location: 2000 FEET FROM SW ON NE LINE AND 1688 FEET FROM E OR W LINE
9. Section, Block and Survey: PAT DOWNEY (A-20)
10. County: BEE
11. Date Drilling Permit Issued: 5-3-61
12. Date Drilling Commenced: 5-9-61
13. Date Drilling Completed: 5-22-61
15. Type of Well (Oil, Gas, Dry): OIL
16. Type of Completion (Single, Dual, Etc.): SINGLE
17. Total Depth: 6157
18. Date Well Plugged: 7-27-71
14. FORM W-2 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING COMPANY

19. Manner of Placement:

PLUG #1	8	SACKS	TOP	5370	BOTTOM	5581	TYPE CLASS A
PLUG #2	1	SACKS	TOP	5	BOTTOM	15	TYPE CLASS A
PLUG #3	8	SACKS	TOP	5	BOTTOM	30	TYPE CLASS A
PLUG #4		SACKS	TOP		BOTTOM		TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES X NO
21. How was Mud applied? PUMP
22. Mud Weight: 10.0 LBS/GAL
23. Depth of Deepest Fresh Water: 1200 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO
25. If NO, Explain:
26. Name and Address of Party Plugging Well: FISH OIL WELL SERVICING COMPANY, P.O. BOX 1057, BEEVILLE, TEXAS 78102
27. Casing and Tubing Record after Plugging:

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	578.30		578.30	
2 7/8"	6127.20		6127.20	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases:

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JAN 10 1972
O & G
SAN ANTONIO, TEXAS

29. Was Notice given before Plugging to each of the above and RRC District Office? YES X NO

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Cagle — REPRESENTATIVE COMPANY
PRORATION SPECIALIST — TITLE
1-6-72 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

DR-3

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-60)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) LAURA THOMSON (5600 No.4)	*5. RRC District 2
*3. Operator HUMBLE OIL & REFINING COMPANY	*4. County BEE
*5. Lease Name & RRC Lease Number(s) or I. D. Number(s) LAURA T. BARROW 02847	*6. Well Number 3
*7. Location (Section, Block, and Survey) PAT DONNEY (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Reamer, Wash or Hole Enlargement Used (Indicate which)						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type and Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "Remarks" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

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JAN 10 1972
BEAUMONT, TEXAS

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	7-20-71	7-27-71	7-27-71			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8"csg	2 7/8"	27/8X95/8"annulus			
*21. Depth to Bottom of [redacted] Plug	5581	15	30			
22. Sacks of Cement Used (each plug)	8	1	8			
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)	5370	5	5			
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

— OVER —

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

LH820 2

26. Remarks:	*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6035c, R.C.S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Howard E. Fish

Signature of Cementer or Authorized Representative

Howard E. Fish, President

Name of Person and Title (type or print)

Fish Oil Well Servicing Co.

Cementing Company

P. O. Box 1057

Street Address or P.O. Box

Beeville, Texas 78102

City, State Zip Code

Telephone 512 358-2505
Area Code

11-27-71

Date

***OPERATOR**

I declare under penalties prescribed in Article 6035c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

HUMBLE OIL & REFINING CO.

*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

*City, State Zip Code

*Telephone 512 884-4571
Area Code

1-6-72

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

MAP ID #114

API# 42-025-01565
DRY HOLE

(114)

Please Refer to File No. 52015

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Humble Oil & Refining Company Address Wilson Tower, Corpus Christi, Texas

Sec. No. - Block No. - Survey Pat Downey (A-20) County Bee

Well No. 7 Name of Lease Laura T. Barrow No. of Acres 6287.94

Name of Field in which well is located Laura Thomson Date well was plugged 10-14-61, 19

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of Humble Oil & Refining Company

Character of Well at the time of completion: Oil - bbls; Gas - Cu. Ft.; Dry Yes
(Initial Production) (Initial Production)

Amount well producing when plugged. Oil 0 bbls; Gas 0 Cu. Ft.; Water 0 bbls.

Has this well ever produced oil or gas? No

Total Depth 5700 feet. Top of each producing sand None feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Power Pump

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot?

Set 250 Sack Cement plug from 1600' to 510'. Set CD squeeze packer at 485' squeezed 15 sacks below packer and spotted 10 sacks cement above packer. Installed 9-5/8" X 2" swedge and 2" plug valve on top of 9-5/8" casing.

SIZE PIPE	PUT IN WELL Ft.	PUT IN WELL In	PULLED OUT Ft.	PULLED OUT In.	LEFT IN WELL Ft.	LEFT IN WELL In.	PACKERS AND SHOES
8-5/8" & 9-5/8"	498.28		None		498.28		Guide Shoe & Float Collar

Show depth found and thickness of all water, oil and gas formations No Commercial sands

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: Casing & Cement

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:

Blair-Vreeland, P. O. Box 2413, Corpus Christi, Texas
Carrl Oil Company, P. O. Box 576, Corpus Christi, Texas
Christi, Mitchell & Mitchell Company, Houston Club Building, Houston 2, Texas

Was notice given before plugging to all available adjacent lease owners as required by Rule 10? Yes

I, A. G. Ross, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

RECEIVED
NOV 10 1961
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

Name A. G. Ross, Title Admin. Supvr.

Subscribed and sworn to before me this 8TH day of November, 19 61

J. L. GALLOWAY J. L. Galloway

Notary Public Refugio County, Texas

Correspondence regarding this well should be addressed to:

Name Mr. R. C. Granberry, Jr. Address Wilson Tower, Corpus Christi, Texas

025-01565

Please Refer to File No.____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company Humble Oil & Refining Company Address Wilson Tower, Corpus Christi, Texas

Sec. No. - Block No. - Survey Pat Downey (A-20) County Bee

Well No. 7 Name of Lease Laura T. Barrow No. of Acres 6287.94 Elev. 101' DF

Name of Field in which well is located Laura Thomson

Located 6.5 Miles NE Direction from Papalote, Texas (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Humble Oil & Refining Company

Drilling Commenced 10-6, 1961. Drilling Completed 10-14, 1961

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 5700

Date you wish to Plug October 14, 1961.

Name of Party Plugging Well Flournoy Drilling Company Address P. O. Box 491, Alice, Texas

Correspondence regarding this well should be sent to: Name Mr. R. C. Granberry, Jr.

Address Wilson Tower, Corpus Christi, Texas

Initial Production of Gas: Volume (MCF) - 24 hrs. Pressure - lbs. per square inch

Initial Production of Oil: Barrels -

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks:

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NOV 10 1961
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Sand & Shale	0	530	
Sand	530	585	
Sand & Shale	585	4150	
Shale	4150	4275	
Sand	4275	4609	
Sand & Shale	4609	4926	
Shale	4926	5035	
Sand & Shale	5035	5700	
TOTAL DEPTH		5700	

Method of shutting off water Casing & Cement Is water completely shut off? Yes

Amount of water with oil - per cent

I, A. C. Ross being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

A. C. Ross
Representative of Company.

Subscribed and sworn before me this 8th day of November, 19 61

J. L. GALLOWAY
J. L. Galloway
Notary Public
Refugio County, Texas.

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NOV 13 1961
OIL & GAS DIVISION
RAILROAD COMMISSION OF TEXAS
AUSTIN

PLEASE WIRE AUTHORITY

Application to Drill, Deepen or Plug Back.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

DW

Form 1
Rev. 4/60

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK Drill

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE,
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. . Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 330 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 1320 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

RECEIVED
SEP 23 1961
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

Date September 22, 1961

Name of company or operator

Name Humble Oil & Refining Company

Address Wilson Tower

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Laura T. Barrow

Number of Acres 6287.94 Well No. 7

Number of wells on lease 5

Elevation _____ (Ft. above sea level) Section No. _____ Block No. _____

Survey Pat Downey (A-20)

Zone or Reservoir _____

To be Located in Laura Thomson Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) _____

Bee County

Approx. 8.5 Miles Northeast direction from Papalote, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling as soon as permitted

Depth to which you propose to drill 6500 feet.

Date work will start deepening _____

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

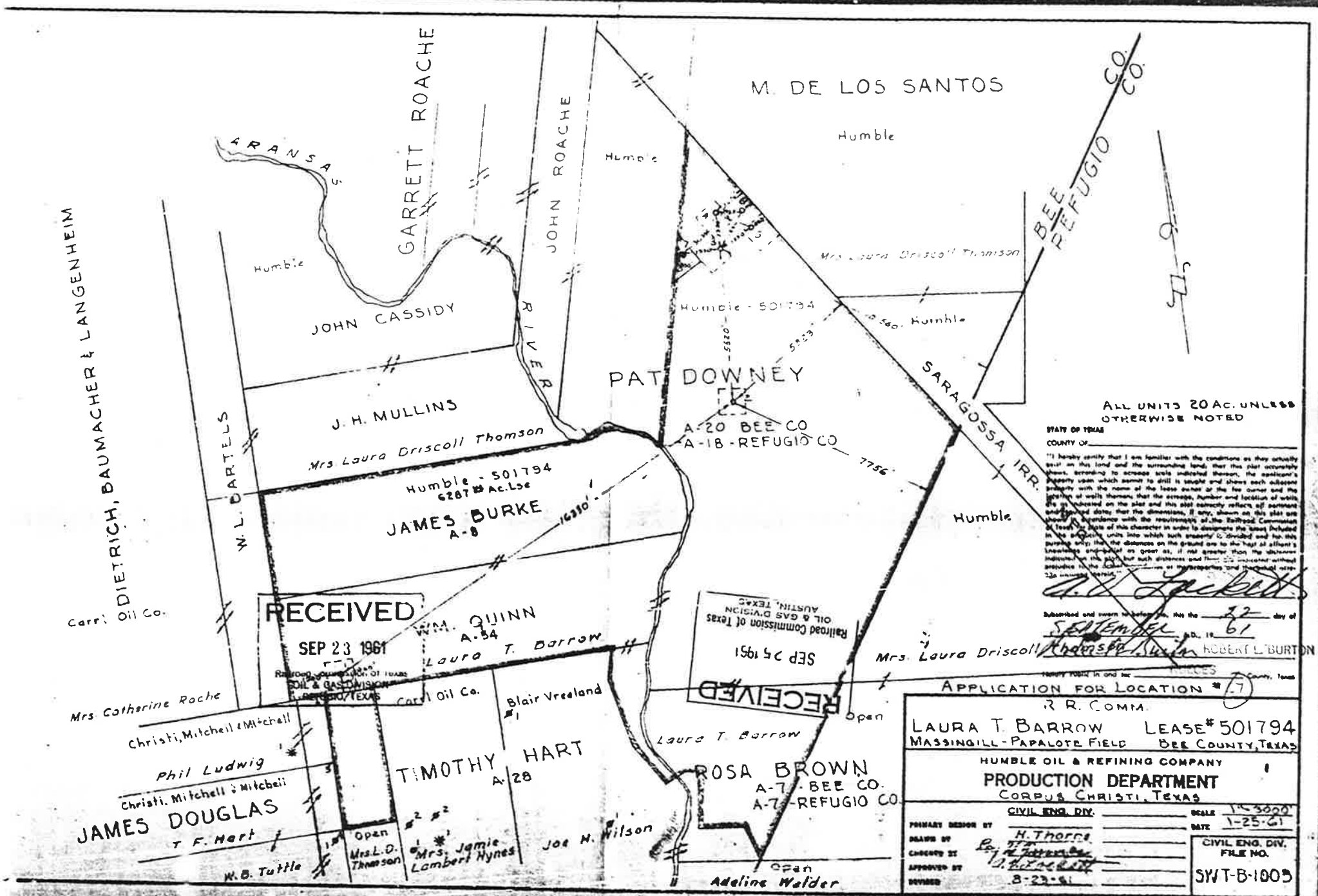
Name _____

Address _____

Loc: 330' E of the Easterly W Line and 3039' SW of the NE Line of the Lease and Survey; also being 1320' SW of No. 3.

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE



M. DE LOS SANTOS
Humble
GARRETT ROACHE
JOHN ROACHE
ARANSAS
RIVER
JOHN CASSIDY
Humble
Humble
Mrs Laura Driscoll Thomson
Humble - 501794
Humble
BEE CO.
REFUGIO CO.
SARAGOSSA IRR.
PAT DOWNEY
A-20 BEE CO
A-18 - REFUGIO CO
J. H. MULLINS
Mrs Laura Driscoll Thomson
Humble - 501794
6287 Ac. Lse
JAMES BURKE
A-8
16330'
W. L. BARTELS
DIETRICH, BAUMACHER & LANGENHEIM
Carr Oil Co.
WM. QUINN
A-54
Laura T. Barrow
Carr Oil Co.
Blair Vreeland
Mrs Catherine Roche
Christi, Mitchell & Mitchell
Phil Ludwig
Christi, Mitchell & Mitchell
JAMES DOUGLAS
T. F. Hart
W. B. Tuttle
TIMOTHY HART
A-28
Open
Mrs. L. D. Thomson
Mrs. Jamie Lambert Hynes
Joe H. Wilson
Laura T. Barrow
ROSA BROWN
A-7 - BEE CO.
A-7 - REFUGIO CO.
Open
Adeline Walder
Humble
Mrs. Laura Driscoll Thomson
Open
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SEP 25 1961
Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS
RECEIVED
SEP 23 1961
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS
ALL UNITS 20 AC. UNLESS OTHERWISE NOTED
STATE OF TEXAS
COUNTY OF
Subscribed and sworn to before me, this the 22 day of SEPTEMBER A.D., 19 61
ROBERT L. BURTON
Notary Public in and for REFUGIO County, Texas
APPLICATION FOR LOCATION # 7
R. R. COMM.
LAURA T. BARROW LEASE # 501794
MASSINGILL - PAPALOTE FIELD BEE COUNTY, TEXAS
HUMBLE OIL & REFINING COMPANY
PRODUCTION DEPARTMENT
CORPUS CHRISTI, TEXAS
CIVIL ENG. DIV.
SCALE 1"=3000'
DATE 1-25-61
PRIMARY DESIGN BY
DRAWN BY H. Thorne
CHECKED BY
APPROVED BY
DIVISED 8-23-61
CIVIL ENG. DIV. FILE NO.
SWT-B-1003

MAP ID #115

API# 42-25-31429
GAS WELL
PLUGGED

Received
RRC of Texas
AUG 18 2015
Oil & Gas Division
San Antonio, Texas

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92
FOD1296

API NO. (If available): 42-025-31429

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 091875

2. FIELD NAME (as per RRC Records): LAURA THOMSON (4850)

3. Lease Name: LAURA T. BARROW

5. Well Number: 15

6. OPERATOR: DURANGO RESOURCES CORP.

6a. Original Form W-1 Filed in Name of:

10. County: BEE

7. ADDRESS: 1160 DAIRY ASHFORD, STE 160
HOUSTON, TEXAS 77079

6b. Any Subsequent W-1's Filed in Name of:

11. Date Drilling Permit Issued: 10/20/80

8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is located: 722 Feet From NE Line and 3700 Feet From W Line of the Laura T. Barrow Lease

12. Permit Number: 096016

9a. SECTION, BLOCK, AND SURVEY: PATRICK DOWNEY SURVEY A-20

9b. Distance and Direction From Nearest Town in this County: 11 miles East of Skidmore

13. Date Drilling Commenced: 11/9/80

16. Type Well (Oil, Gas, Dry): GAS

Total Depth: 5710

17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s

GAS ID or OIL LEASE #	Oil–O Gas–G	WELL #

14. Date Drilling Completed: 11/14/80

18. If Gas, Amt. of Cond. on Hand at time of Plugging: NONE

15. Date Well Plugged: 7/30/2015

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	7/29/15	7/30/15	7/30/15					
20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8	2 7/8	2 7/8					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4800	1275	13					
*22. Sacks of Cement Used (each plug)	12	15	1					
*23. Slurry Volume Pumped (cu. ft.)	12.72	15.90	1.06					
*24. Calculated Top of Plug (ft.)	4470	800	3					
25. Measured Top of Plug (if tagged) (ft.)		761						
*26. Slurry Wt. #/Gal.	16.4	16.4	16.4					
*27. Type Cement	H	H	H					

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.#/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	1218	1215	12 1/4
2 7/8	6.4	5704	5701	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well? ☐ Yes ☐ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 4850 TO 4857		FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

RECEIVED
RRC OF TEXAS
AUG 02 2016
INFORMATION SERVICES
AUSTIN, TX

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.

* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

Robert J. Furr
Signature of Cementer or Authorized Representative

NEWMAN OPERATING COMPANY
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY	TITLE	DATE	Phone A/C	NUMBER
	Geologist	8/18/15	281	558.7998

Elias 8/18/15
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
RRC OF TEXAS
AUG 31 2015
OIL & GAS WELL COMPLIANCE
AUSTIN, TX

CAPPING

31. Was well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission	[X] Yes [ ] No	32. How was Mud Applied?	33. Mud Weight
		CIRCULATED IN PLACE	9.5

24. Total Depth	Other Fresh Water Zones by T.D.W.R.		35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules?	[X] Yes [ ] No
	TOP	BOTTOM		
5710	0	850	36. If NO, Explain	
Depth of Deepest Fresh Water 1100				

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well.

NEWMAN OPERATING COMPANY P.O. BOX 448 FREER, TEXAS 78357

Date RRC District Office notified of plugging: 7/28/2015

38. Name(s) and Addresse(s) of Surface Owner of Well Site

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to Date

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest Field _____

REMARKS

JOB #466

(115) 31429

Form G-1
Rev. 8-12-78

API No. Available 42-025-31429

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

RRC District: 2
RRC Identification Number: 91375
Well Number: 15
County: Bee
Purpose of Test: Initial Potential X / Retest / Recless
Completion or Recompletion Date: 11/26/80

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4850)
2. LEASE NAME: Laura T. Barrow
3. OPERATOR: Exxon Corporation
4. ADDRESS: Wilson Tower, Corpus Christi, Texas 78475
5. LOCATION (Section, Block, and Survey): Patrick Downey Survey A-20 11½ miles East from Skidmore
6. If Operator has changed within last 60 days, Give former Operator.
7. Well No. on Lease, Enter Lease or Gas ID number associated with Reservoir: GAS ID or OIL LEASE #: Oil - G / Gas - G: WELL
8. FIELD & RESERVOIR
9. Distance and Direction from nearest town in this county.
10. Elevation (DF, RT, GR, etc.)
11. Total Depth: ACTUAL / PBTD
12. Single, Dual or Multiple Completion?
13. Pipe Line Connection
14. Completion or Recompletion Date: 11/26/80
15. Type of Electric or other Log Run.
16. Date of Last Offset Oil Well Completion
17. Date of Last Offset Gas Well Completion
18. Any Gas in this Reservoir Dedicated to Contract? Yes / No

Section I — GAS MEASUREMENT DATA

Date of Test: 12-8-80
Gas Measurement Method (Meter / Critical): Orifice Meter X
Type Taps: Flange
Static Meter Pressure: Flow Through Tubing / Flow Through Casing
Differential Meter Pressure: Flow Through Tubing / Flow Through Casing
Gas produced during test: 167 MCF

No.	Line Size	Orifice or Choke Size	24 Hr. Coef. Size of Choke	Static P_m Meter Press. psia	Diff. h_w	Meter Temp. °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress. Factor F_{pv}	Volume MCF/DAY
	2.900	1.000	6356.75	815	82.5	77	.9840	.9975	1.061	1717
				815	44.5	76	.9850	.9975	1.061	1262
				815	24.5	73	.9877	.9975	1.065	943
				815	11.5	72	.9887	.9975	1.065	646

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas): .603
Gravity (Liquid Hydrocarbons):
Gas Liquid Hydrocarbon Ratio: 178.297
Specific Gravity of Separator Gas: .618
Avg. Static Meter Temp.: 185 °F
Bottom Hole Temp.: 148 °F at 4854 ft. (depth)

D_{eff}^{n} = , T_f = , G_L =

$C = \frac{1118 \cdot (D_{eff})^{n}}{G_L \cdot T}$ = , G_L = , C = 10-8-80

Run No.	Time of Run Hr. Min	Choke Size	Meter Press. P_w psia	Meter Temp. °F	P_w^2	R	$R^2 (1 - e^{-s})$	P_t	$P_w - P_t$
Shut-in	24hrs.		1177	74					
	90	16/64	1102	100					
	30	Adj.	1132	100					
	30	Adj.	1142	100					
	30	Adj.	1149	100					

Run No.	F	K	S	P_t and P_s	P_t^2 and P_s^2	$P_t^2 - P_s^2$	Angle of Slope
Shut-in				1367	1869		θ 45°
Used Amerada				1338	1790	79	n 1.000
1" BHP Gage				1346	1812	57	Absolute Open Flow
2800# Element				1351	1825	44	40,000 MCF/DAY
SN: 25902				1357	1841	28	

An inclination survey has been run in accordance with Statewide Rule 11 and the results are available upon request. Maximum horizontal displacement was 73.12 feet at a measured depth of 5316 feet.

Harkins & Co.
Name of Company Conducting Survey

Signature of Authorized Representative
I have knowledge that the cementing operations, as reflected by the information found on the reverse side of this form, were performed as indicated by such information.

E T Eubanks
Name of Cementing Company

Signature of Cementer or Authorized Representative

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.

C. F. Meeks — 10-2-80 — 512/887-2228
REPRESENTATIVE OR AGENT — DATE — AREA CODE & NUMBER

025 31429

SECTION III

DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well X Deepening Plug Back Other

18. Permit to Drill, Plug Back or Deepen: DATE 10/20/80 PERMIT NO. 096016

Rule 37 Exception: CASE NO.

Water Injection Permit: PERMIT NO.

Salt Water Disposal Permit: PERMIT NO.

Other: PERMIT NO.

19. Name of Intention to Drill this Well was filed in Name of: Exxon Corporation

20. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

21. Total Number of Acres in this Lease: 6,288

22. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 11-9-80 Completed 11/14/80

23. Distance to Nearest Well, Same Lease & Reservoir: —

24. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 722 Feet From NE Line And 3700 Feet From W Line of the Laura T. Barrow Lease

25. Elevation (DF, RKB, RT, GR, ETC): 111.6 DF

26. Was Directional Survey Made Other Than Inclination (Form W-12): Yes X No

27. Top of Pay: 4850' 28. Total Depth: 5710 29. P. B. Depth: 5669

30. Surface Casing Determined by: Field Rules; Recommendation of T.D.W.R. X; Railroad Commission (Special); Dt. of Ltr. 10/8/80

31. Is Well Multiple Completion? Yes No X

32. Is Multiple Completion Last All Reservoir Names (Completion in this Well) and Oil Lease or Gas ID No.: FIELD & RESERVOIR; GAS ID or OIL LEASE #; Oil-O Gas-G; WELL #

33. Intervals Drilled: Rotary Tools X; Cable Tools

34. Name of Drilling Contractor: Hawkins & Co.

35. Is Cementing Affidavit Attached? X Yes No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (Sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	1218.43		Cl.A 570 sxs	12 1/4	Surface	158.08
2 7/8	6.4	5703.77		Cl.H 1950 sxs	7 7/8	Surface	2546

37. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set

39. Producing Interval (this completion) indicate Depth of Perforation or Open Hole

From 4850 To 4857

From To

From To

From To

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS

Formations	Depth	Formations	Depth
Sand + Clay	0 - 1242	Clay + Sand	2001 - 3008
Clay + Sand + Shale	1242 - 1433	Clay + Sand + Shale	3008 - 3260
Clay + Shale	1433 - 2001	Shale	3260 - 3576
		Sand + Shale	3576 - 3984
		Shale	3984 - 4340
		Sand + Shale	4340 - 4938
		Shale	4938 - 5178
		Sand + Shale	5178 - 5710 T.D.

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-67)

INCLINATION REPORT

(One Copy Must be Filed With Completion Report)

2. RRC District: 2
3. RRC Lease Number (Oil completions only):
1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson
2. LEASE NAME: Laura T. Barrow
6. Well Number: 15
3. OPERATOR: Exxon Corporation
7. RRC Identification Number (Gas completions only):
4. ADDRESS: Wilson Tower, Corpus Christi, TX 78476
10. County: Bee
5. LOCATION (Section, Block, and Survey): Patrick Downey Survey A-20

RECORD OF INCLINATION

11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	13. Inclination Degrees	14. Displacement per Hundred Feet (Angle Value)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
393	3.93	1/4	.44	1.71	1.71
984	5.91	1	1.75	10.34	12.05
2961	9.77	1/4	.44	4.30	16.35
2961	10.00	3/4	1.31	13.10	29.45
3944	9.83	1	1.75	17.20	46.65
4938	9.94	3/4	1.31	13.02	59.67
5710	7.72	1	1.75	13.51	73.18

If additional space is needed use the reverse side of this form

17. Is any information shown on the reverse side of this form? yes X no
18. Accumulative total displacement of well bore at total depth 5710 feet 73.18 feet
19. Inclination measurements were made in — Tubing X Casing Open hole Drill Pipe
20. Distance from surface location of well to the nearest lease line 722 feet
21. Minimum distance to lease line as prescribed by field rules 467 feet
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? no
(If the answer to the above question is "yes", attach explanation)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I have personal knowledge of the data and facts stated in this form and that said data and facts are true, correct, and complete to the best of my knowledge. The inclination data reported on this form is indicated by the symbol (•) by the data.

C. S. Mapes
Signature of Authorized Representative

C. S. Mapes
Name of Person and Title (type or print)

Harkins & Co.
Name of Company

Telephone: 512 664-5533
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I have personal knowledge of the data and facts stated in this form and that said data and facts are true, correct, and complete to the best of my knowledge. The inclination data reported on this form is indicated by the symbol (•) by the data.

Signature of Authorized Representative

Charles H. Smith, Drlg. Tech.
Name of Person and Title (type or print)

Exxon Corporation
Name of Company

Telephone: 512 887-2200
Area Code

Railroad Commission Use Only

Approved by: [signature] Date: 1-22-70

• Designates items certified by [illegible]

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev. 5 1 80)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson	*2. RRC District 2
*3. Operator Exxon Corporation	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) (or O. Number(s)) Laura Y. Barrow	*6. Well Number 15
*7. Location (Section, Block, and Survey) Patrick Downey Survey A-20	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date	11-09-80					
*9. (a) Size of Drill Bit (inches)	[illegible]					
(b) Estimated % Wash or Hole Enlargement for Calculations.						
*10. Size of Casing (inches O.D.)	8 5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1218.43					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "RIMARKS" on reverse side.)	A + 8% Gel + 3% Salt					
(b) In Second Slurry	A + 2% A-7					
(c) In Third Slurry	A + 2% A-7					
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	320					
(b) In Second Slurry	200					
(c) In Third Slurry	50					
(d) Total Sacks of Cement Used	570					
15. Slurry Volume per Sack of Cement (cu.ft. sack) (a) In First (Lead) or Only Slurry	1.86					
(b) In Second Slurry	1.17					
(c) In Third Slurry	1.17					
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	106					
(b) In Second Slurry	41.67				[illegible]	
(c) In Third Slurry	10.41					
(d) Total Slurry Volume Pumped (cu.ft.)	158.08					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	[illegible]					
18. Was cement circulated to ground surface (or bottom of collar) outside casing? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

57875

26. Remarks:

Exxon Company, U.S.A.
L.T. Barrow #15
San Patricio County, Texas

*27 Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6060, R.C.S. that I am authorized to make this certification; that the cementing of casing, and of the plugging of the well as shown on the front hereof was performed by me or under my supervision; and that the statements and facts presented on the front hereof are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Jeff Rackley
Signature of Cementer or Authorized Representative

Jeff Rackley - Service Engineer
Name of Person and Title (type or print)

BJ-Hughes, Inc.
Cementing Company

P.O. Box 4027
Street Address or P.O. Box

Corpus Christi, Texas 78408
City, State Zip Code

Telephone 512 884-6685
Area Code

11-9-80
Date

***OPERATOR**

I declare under penalties prescribed in Article 6060, R.C.S. that I am authorized to make this certification; that I have knowledge of the well data presented on this report; and that such well data presented on this form are true, correct, and complete to the best of my knowledge. This certification covers operator data only.

J B Wasson
*Signature of Operator or Authorized Representative

*Name of Person and Title (type or print)

*Corpus Christi, TX 78476
*City, State Zip Code

*Telephone Area Code

JAN 21 1981
Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules or if exception is needed to cementing requirements in Statewide or Special Rules, unless the Form G-1 or W-2 is signed by the cementing company representative.
   (2) Each copy of Form W-1 unless the Form W-1 is signed by the cementing company representative.
   (3) Each copy of Form W-4 if a multiple parallel casing completion.

   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.

   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form to be filed in duplicate.

2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 9, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 10(E).

3. If setting FULL AMOUNT OF SURFACE CASING:

   A. To circulate to protect fresh water to:
      (1) Field Rule
      (2) Texas Water Development Board if no Field Rule

   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.

4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.

5. If setting NO SURFACE CASING: (See Item 4 above)

   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.

   B. If using the multi-stage tool on the next deeper string, cementing to the depth that protects fresh water sands to the surface.

6. If setting SHORT SURFACE CASING: (See Item 4 above)

   A. Cement short surface casing from the shoe to the surface.

   B. When the multi-stage tool is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      1. the surface, or
      2. a point not less than 600 feet above the top of the uppermost productive zone, whichever is shallower. In compliance with Statewide Rule 13(a)(4), the top of the cement shall be shown on this form by circling the distance from the shoe of the surface string to the surface.

7. Setting PRODUCTION STRING of Casing: (Statewide Rules, Special Rules may apply.)

   A. Cement to be placed at least 1,000 feet above the casing shoe.

   B. When a liner is used, the liner shall be set by the next casing string, and sufficient cement shall be used to fill the annulus behind the liner.

8. PLUGGING AND ABANDONING:

   A. Cement plugged in accordance with the rules as required by Rule and Special Rules. The depths and the number of sacks of cement may be specified by the RRC District Office.

   B. Mud-laden fluid, of such weight and other characteristics as to exert sufficient pressure to prevent the flow of formation fluids into the wellbore, shall be placed in the wellbore between all plugs placed.

   C. A cement plug shall be placed in the wellbore at the top of the well

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev. 5-1-80)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson
*2. RRC District 2
*3. Operator Exxor Corporation
*4. County Bee
*5. Lease Name Laura T. Barrow
*6. Well Number 15
*7. Location (Section, Block, and Survey) Patrick Downey Survey A-20

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8 Cementing Date			11-17-80			
*9. (a) Size of Drill Bit (inches)			7 7/8			
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)			2 7/8			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)			5703.77			
13. Type API Class Cement & Amount of Additives Used. (a) In First (Lead) or Only Slurry (If additional space is needed, use Remarks or reverse side.)			Remarks			
(b) In Second Slurry			"			
(c) In Third Slurry						
14. Sacks of Cement Used (a) In First (Lead) or Only Slurry			950			
(b) In Second Slurry			1000			
(c) In Third Slurry						
(d) Total Sacks of Cement Used			1950			
15. Slurry Volume per Sack of Cement (cu.ft./sack) (a) In First (Lead) or Only Slurry			1.28			
(b) In Second Slurry			1.33			
(c) In Third Slurry						
16. Volume of Slurry Pumped (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry			1216			
(b) In Second Slurry			1330			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)			2546			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)			5710			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)			yes			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:	*27. Remarks:
Exxon Co., USA L T Barrow 15 San Patricio Co., Texas 13a. TLW + 10#/sk sand + 1%D-19 + .5%R-5 b. H + 30#/sk sand + 1%D-19	

CEMENTING COMPANY

I declare under penalties prescribed in Article 6038c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Jim Wilson
Signature of Cementer or Authorized Representative

Jim Wilson, cementer
Name of Person and Title (type or print)

BJ-Hughes, Inc.
Cementing Company

P O Box 4027
Street Address or P.O. Box

Corpus Christi, Texas 78408
City, State Zip Code

Telephone 512 884-6685
Area Code

11-17-80
Date

***OPERATOR**

I declare under penalties prescribed in Article 6038c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

G. F. Presson
*Signature of Operator or Authorized Representative

G. F. PRESSON PRORATION
*Name of Person and Title (type or print)

*Operator

*Street Address or P.O. Box

*City, State Zip Code

*Telephone
Area Code

JAN 21 1981
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules or if exception is needed to cementing requirements in Statewide or Special Rules, unless the Form G-1 or W-2 is signed by the cementing company representative
   (2) Each copy of Form W-3, unless the Form W-3 is signed by the cementing company representative
   (3) Each copy of Form W-4 if a multiple parallel casing completion
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate)
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(F)
3. If setting FULL AMOUNT OF SURFACE CASING
   A. Depth to protect fresh water by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION
5. If setting NO SURFACE CASING (See Item 4 above)
   A. If no multi stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface
6. If setting SHORT SURFACE CASING (See Item 4 above)
   A. Cement short surface casing from the shoe to the surface
   B. Whether the multi stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one third of the distance from the shoe of the surface string to the surface
7. Setting PRODUCTION STRING of Casing (Statewide Rules, Special Rules may vary)
   A. Cement to a point at least 600 feet above the casing shoe
   B. When 1000 feet or more of pipe is set for the production or protecting string, a minimum of 50 feet of cement shall be left inside the pipe
8. PLUGGING AND ABANDONING
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission, plus any additional plugs as may be specified by the RRC District Director
   B. The minimum amount of cement normally used in each plug shall be a sacry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed
   C. A 10 foot cement plug is required to be placed [illegible] top of the well

Harkins & Company

OIL & GAS - DRILLING & PRODUCING

P. O. BOX 1940 · 664-3427 · ALICE, TEXAS 78332

DRILLER'S LOG

EXXON COMPANY, U.S.A.
LAURA T. BARROW #15
BEE COUNTY, TEXAS

0	1242	sd & clay
1242	1433	clay, sd & sh
1433	3008	clay & sh
3008	3260	sd, sh & clay
3260	3576	shale
3576	3984	sd & sh
3984	4340	shale
4340	4938	sd & sh
4938	5178	shale
5178	5710	sd & sh
5710		T. D.

Jimmy Lee DeSpain

HARKINS & COMPANY, CONTRACTOR

JAN 9 1981

2-ZD-91875

FORM W-1
(6/78)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

API Well No. 42 (Instruction (a&b) on back side.) 225-31429

RRC Permit Number of previously assigned: 0916016

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: ✓ DRILL | DEEPER (Below Casing) | DEEPEN (from Casing) | PLUG BACK | OTHER (specify)

If Amended Application, explain fully in Remarks or Attach Separate Page.

1. Operator: Exxon Corporation 23267
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Tx. 78476
3. Lease Name and RRC Lease or ID No. (If Assigned): Laura T. Barrow
4. Location (Sec., Blk., Survey): Patrick Downey Survey * A-20
5. This well is to be located 10.7 miles East direction from Skidmore, Tx. Nearest P.O. Office or Town
6. Is Form P-5 (Organization Report) in Effect for Operator Named in Item 1? Yes ✓ No (Instruction #2 on back side.)
7. RRC District: 2
8. County: Bee
9. Well Number: 15
10. Number of Acres in Lease: 6287.94
11. Distance from Proposed Location to Nearest Property or Lease Line: 722
12. Total Depth: 6110

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

14. FIELD NAME (Exactly as shown in P-5 if Producing Schedule on file) Recognized if application is Wildcat, so state below	15. Completion Depth	16. All Prior Field Assignments for this well (Docket No. if none, State None)	17. Applicable Field Rules Spacing Pattern, Ho. Rules, State 467-1200 (Acres)	18. Applicable Field Rules Density Pattern, Ho. Rules, State 40 (Acres)	19. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	20. Is this Acreage Presently Assigned to Other Wells? Yes or No. If Yes, give Lease and Well Number in Remarks	21. Nearest Lease or Unit Boundary	22. Type Well (Oil, Gas or other)	23. Distance to Nearest Well Producing or Permitted in Reservoir: Oil	Gas
Laura Thomson (4850)	4853	—	467-1200	40	40	No	1750'	Gas	—	1
Wildcat Above	6110	—	467-1200	40	40	No	—	Oil or Gas	—	—

24. PERPENDICULAR LOCATION FROM LND DESIGNATED:
A. Lease Line: 722' from northeast line & 3900' from West line
B. Survey Line: 722' from northeast line & 6300' from West line

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25. Is this well to be directionally drilled? No
If yes, attach explanation.

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have adequate surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS:

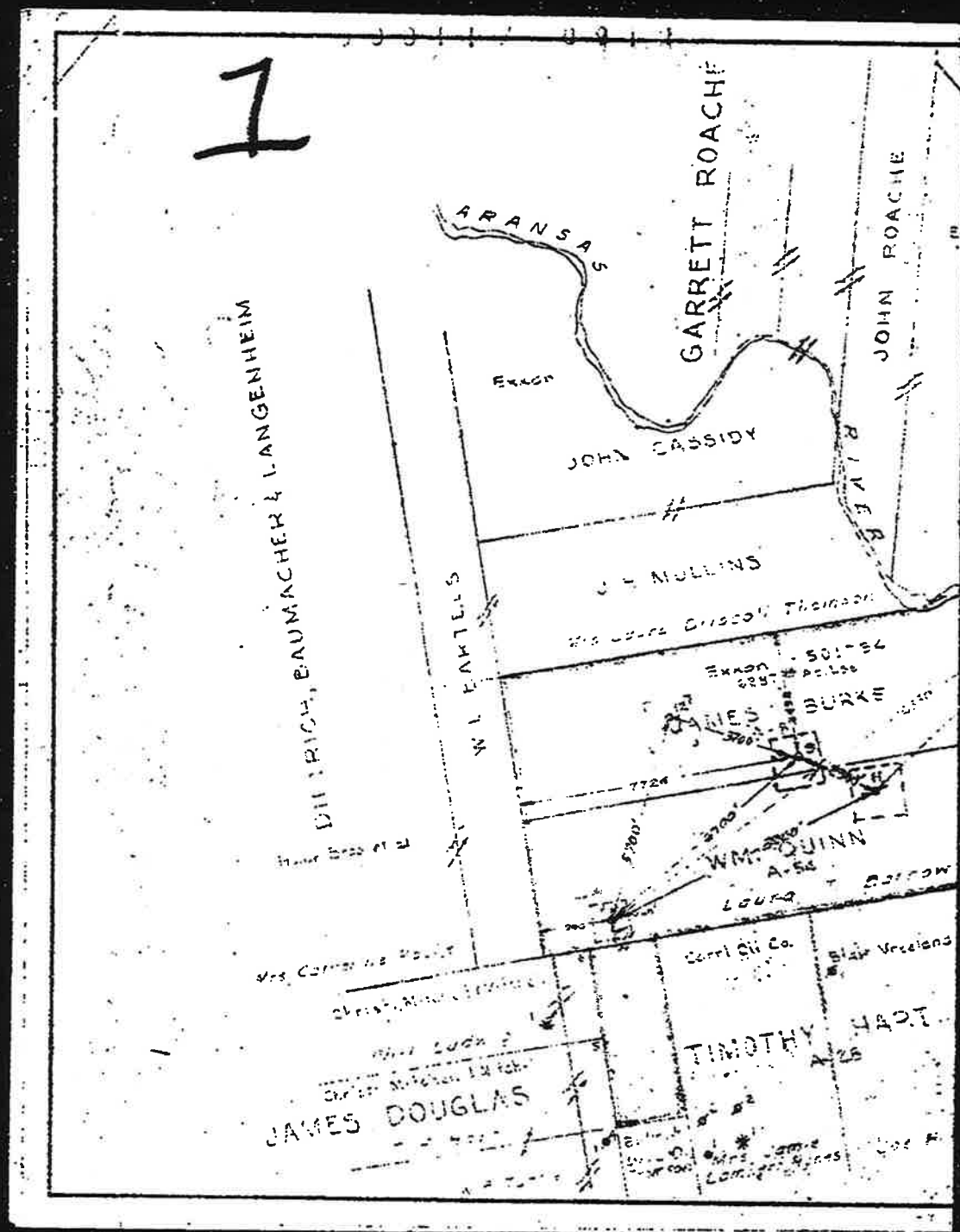
CERTIFICATE

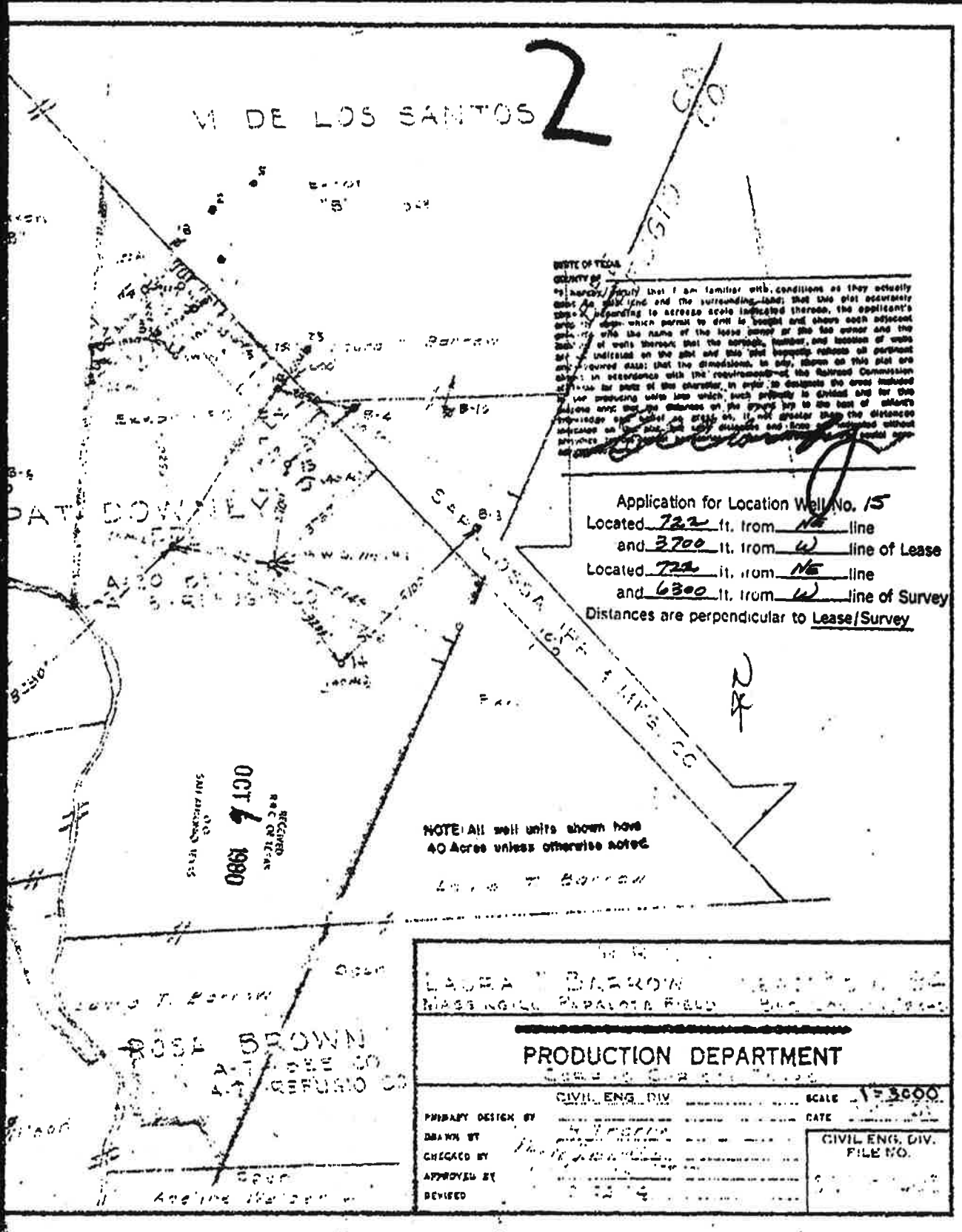
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: G. F. PRESSON
Title: PRORATION SPECIALIST
Date: October 2, 1980
Telephone: Area Code 512/ 887-9226

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

025-31429


1
ARANSAS
GARRETT ROACHE
JOHN ROACHE
RIVER
Exxon
JOHN CASSIDY
J. H. MULLINS
W. L. BARTELS
DIETRICH, BAUMACHER & LANGENHEIM
Exxon
JAMES BURKE
WM. QUINN
A-54
Laura Barrow
Carrl Oil Co.
TIMOTHY HART
JAMES DOUGLAS


2
M DE LOS SANTOS
PAT DOWNEY
ROSA BROWN
Application for Location Well No. 15
Located 722 ft. from NE line
and 3700 ft. from W line of Lease
Located 722 ft. from NE line
and 6300 ft. from W line of Survey
Distances are perpendicular to Lease/Survey
NOTE: All well units shown have 40 Acres unless otherwise noted.
OCT 1 1980
LAURA T. BARROW
MASSINGILL PARALOTA FIELD
PRODUCTION DEPARTMENT
CIVIL ENG. DIV.
SCALE 1"=3000
PRIMARY DESIGN BY
DATE
DRAWN BY
CHECKED BY
APPROVED BY
REVISED
CIVIL ENG. DIV. FILE NO.

MAP ID #116

API# 42-025-30092
GAS WELL
PLUGGED

(116)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42-025-30092 (if available)

1. RRC District: 2

4. RRC Lease or Id. Number: 050205

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records): Laura Thompson (4850)	3. Lease Name: Laura T. Barrow "B"	5. Well Number: 25
6. OPERATOR: Exxon Company, ~~U.S.A.~~	6a. Original Form W-1 Filed in Name of	10. County: Bee
7. ADDRESS: P. O. Box 2528, Corpus Christi, Texas 78403-2528	6b. Any Subsequent W-1's Filed in Name of	11. Date Drilling Permit Issued: 2-24-89
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 1125 Feet From SW Line and 7000 Feet From NW Line of the Laura T. Barrow "B" Lease		12. Permit Number: None
9a. SECTION, BLOCK, AND SURVEY: M. DeLos Santos (A-64)	9b. Distance and Direction From Nearest Town in this County: 10.9 miles E of Skidmore, TX	13. Date Drilling Commenced: 3-20-89
16. Type Well (Oil, Gas, Dry): Gas; Total Depth: 5793	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s: GAS ID or OIL LEASE #; Oil-O Gas-G; WELL #	14. Date Drilling Completed: 3-27-89
18. If Gas, Amt. of Cond. on Hand at time of Plugging	RECORD CODIFICATION SEP 27 1989	15. Date Well Plugged: 09/06/89

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19 Cementing Date	090689	090689	090689	090689	090689	090689	090689	
20. Size of Hole or Pipe in which Plug Placed (inches)	27/8	27/8	27/8	27/8	27/8	27/8	27/8	
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4900	4155	3355	2555	1755	955	478	
*22. Sacks of Cement Used (each plug)	22	22	22	22	22	13	13	
*23. Slurry Volume Pumped (cu. ft.)	25.96	25.96	25.96	25.96	25.96	15.34	15.34	
*24. Calculated Top of Plug (ft.)	4155	3355	2555	1755	955	478	4	
25. Measured Top of Plug (if tagged) (ft.)								
*26. Slurry Wt. #/Gal.	15.6	15.6	15.6	15.6	15.6	15.6	15.6	
*27. Type Cement	ClassH	ClassH	ClassH	ClassH	ClassH	ClassH	ClassH	

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
85/8	23	566	566	11
27/8	6.5	5787	5787	77/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30 LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 4857	TO 4862	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO
FROM	TO	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

D W Culberson
Signature of Cementer or Authorized Representative

Culberson Well Service, Inc. 09/14/89
Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Linda Arrin — REPRESENTATIVE OF COMPANY
Proration Specialist — TITLE
9-19-89 — DATE
Phone 512 — A/C
889-7108 — NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

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R.R.C. OF TEXAS
SEP 20 1989
O.G.
SAN ANTONIO, TX

4/15

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [ ] Yes [X] No

32. How was Mud Applied? filled with cement

33. Mud Weight: --- LBS/GAL

34. Total Depth: 5793

Depth of Deepest Fresh Water: 1100

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: Culberson Well Service, Inc., P. O. Box 2266, Victoria, TX 77902

Date RRC District Office notified of plugging: 09/05/89

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

HEWIT & DOUGHERTY Lambert Plaza Refugio, Texas 78377
WISER OIL COMPANY c/o AVTC 560 W. Main, Suite 202 Lewisville, TX 75067
OXOCO EXPLORATION c/o Clarke Co. 2510 Times Blvd. Houston, Texas 77005
W.C. MILLER 1110 Alamo National Bank Building San Antonio, Texas 78205
MARTY L. GRIFFITH & ASSOCIATES 11211 Katy Freeway, Suite 606 Houston, Texas 77079
VTX EXPLORATION, INC. P.O. Box 4548 Victoria, Texas 77903

39. Was Notice Given Before Plugging to Each of the Above? yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS No production casing recovered.
Cut & capped well 4' below ground level.

AMOCO PRODUCTION COMPANY P.O. Box 3092 Houston, Texas 77253
HEAD & WELSH P.O. Box 16290 Houston, Texas 77222
MUELLER ENGINEERING CORPORATION 1010 First City Tower II Corpus Christi, Texas 78478
HARDWOOD EXPLORATION, INC. 720 Mesquite Corpus Christi, Texas 78401
Thomas D. Barrow 1010 Lamar, Suite 400 Houston, Texas 77002

4-23-71
RRC.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

NFO 047175

Form G-1
Rev. 7/1/66

DISCOVERY

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (as per RRC Records or Wildcat): Laura Thomson (4850)
2. LEASE NAME: Laura T. Barrow Unit
3. OPERATOR: Humble Oil & Refining Company
4. ADDRESS: P. O. Box 2585, Corpus Christi, Texas 78403
5. If Operator has changed within last 60 Days — Give former Operator
6. LOCATION (Section, Block, and Survey): Miguel Du Los Santos (A-64) S/L
7. RRC District: 2
8. RRC Identification Number: 50705
9. Well Number: 25
10. County: Bee
11. Purpose of Test: Initial Potential [X] Retest [ ] Recleas [ ]
12. Pipe Line Connection
13. If Workover, give former Field (with Reservoir)
14. Completion Date: 4-6-71
15. List of Offset Operators Notified and Date of Notification
16. Type of Electric or other Log Run

Filed 4-22-71 Eff 4-6-71

Section I — GAS MEASUREMENT DATA

Date of Test: 4-6-71
Gas Measurement Method (Check One): Orifice Meter [X] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-Flow Prover [ ]
Gas produced during test: 820 MCF

Run No.	Line Size	Orifice or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	3.068	1.539	1473.79	830	92.5	74	.9860	.9958	1.071	4297
2				815	44.0	74	.9865	.9958	1.065	2920
3				810	26.0	74	.9863	.9958	1.065	2238
4				800	14.5	75	.9859	.9958	1.061	1653

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas): .605
Gravity Liquid Hydrocarbon: 62.4 Deg API
Gas-Liquid Hydr Ratio: 142.473 CF Bbl
Gravity of Mixture G_{mix} = .624
Avg Shut-in Temp: 117.5 °F
Bottom Hole Temp: 161 °F @ 4855.5 Depth

$D_{eff}^{2\ 3}$. / T_f = √ = / GL = √ =

$C = \frac{1118 \times (D_{eff})^{2\ 3}}{\sqrt{T}}$. $\frac{GL}{C}$ = :

Run No.	Time of Run Min	Choke Size	Wellhead Press P_w PSIA	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_t	P_w/P_t
Shut-in	24 hrs.		1846						
1	180	20/64	1780	114					
2	60	1/4	1823	111					
3	60	7/32	1834	108					
4	60	3/16	1843	104					

Run No.	F	K	$S = \frac{1}{s}$	g_{ks}	P_t and P_s	P_t^2 and P_s^2	$P_t^2 - P_s^2$
Shut-in					2091	4372	
1	BHP Gage used				2044	4178	194
2	2800# Element				2067	4272	100
3	Ser. No. 25902-H				2077	4314	58
4					2082	4339	33

Angle of Slope
θ = 60.5
n = .577

Absolute Open Flow
25,000 MCF/DAY

OPEN FLOW TEST

Shut-In Press: New well Psia
Time Shut In: 5 Hrs.
Producing Through
In H_2O In Hg

Time	Reading	Time	Reading

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R. R. C. OF TEXAS
APR 16 1971
SAN ANTONIO, TEXAS

FESCO, Inc. John L. Barthett
REPRESENTATIVE OF COMPANY MAKING TEST

REPRESENTATIVE OF RAILROAD COMMISSION

CERTIFICATE: I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete to the best of my knowledge.

APR 19 1971

Accountant
TITLE

April 14, 1971
DATE

L. K. Jackson
REPRESENTATIVE OF COMPANY

025-30090

Filed 4-16-71 Eff 4-6-71 From 1 hr TSS 14

RECEIVED

DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Date Permit Issued: 2-26-71

19. Name of Intention to Drill this Well was Filed in Name of: Humble Oil & Refining Company

20. If Special Permit, Give Permit Number:

21. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 1

22. Total Number of Acres in this Lease: 6128

23. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced 3-20-71; Completed 3-27-71

24. Distance to Nearest Well, Same Lease & Reservoir: ---

25. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 1,125 Feet From Northwest Line And 7,000 Feet From Southwest Line of The Laura T. Barrow "B" Lease

26. Elevation (DF, RKB, RT, GR, ETC): 99' DF

27. Was Directional Survey Made: Yes [ ] No [X]

28. Top of Pay: 4853'

29. Total Depth: 5793

30. P.B. Depth: 5755

31. Surface Casing Determined By: Recommendation of Texas Water Development Board [X] Field Rules [ ] Railroad Commission (Special) [X]

32. Is Well Multiple Completion? Yes [ ] No [X]

33. If Multiple Completion List All Reservoir Names:

34. Intervals Drilled By: Rotary Tools: X; Cable Tools:

35. Name of Drilling Contractor: Pearl Drilling Company

36. Is Cementing Affidavit Attached? Yes [X] No [ ]

37. CASING RECORD (Report All Strings Set in Well)

Casing Size	Weight LB/FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
8-5/8	23#	566	11	330 sx.	
2-7/8	6.5	5786	7-7/8	1400 sx.	

38. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

39. TUBING RECORD

Size	Depth Set	Packer Set

40. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From		To	
From	4853	To	4858
From		To	
From		To	

41. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used

42. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
SD & SH	0 - 572		
SD	572 - 939		
SD & SH	939 - 4100		
SH	4100 - 5793		

REMARKS

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
11-1-71

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

4. RRC District: 2
5. RRC Lease Number (Oil completions only):
1. FIELD NAME (as per RRC Records or Wildcat): LAURA THOMSON
2. LEASE NAME: LAURA T. BARROW "B"
6. Well Number: 25
3. OPERATOR: HUMBLE OIL & REFINING CO.
7. RRC Identification Number (Gas completions only): N/A
8. ADDRESS: WILSON TOWER
10. County: BEE
9. LOCATION (Section, Block and Survey): MIGUEL DE LOS SANTOS (A-64)

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
495	495	2°	.0349	17.28	17.28
1490	995	2°	.0349	34.73	52.01
2480	990	1¾°	.0305	30.20	82.21
3475	995	2°	.0349	34.73	116.94
4000	525	1°	.0175	9.19	126.13
4980	980	1½	.0262	25.68	151.81

If additional space is needed use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Horizontal displacement of well bore at total depth of 4980 feet = 151.81 feet.

*19. Directional measurements were made in -- ☐ Tubing ☐ Casing ☒ Open hole ☐ Drill Pipe

20. Distance from surface location of well to the nearest lease line 1125 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? No

(If answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Article 6033c, R.C.S. that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts stated on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Robert E. Pearl, Toolpusher
Signature of Authorized Representative
ROBERT E. PEARL, TOOLPUSHER
Name (type or print)
BILL PEARL DRG. COMPANY
Name of Company
Telephone: 512 Area Code 664-2605

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R. R. C. OF TEXAS
APR 16 1971

OPERATOR CERTIFICATION

I declare under penalties prescribed in Article 6033c, R.C.S. that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

R. L. Westbrook Jr.
Signature of Author and Representative
R. L. Westbrook, Jr. Senior Drilling Supt.
Name of Person and Title (type or print)
Humble Oil & Refining Company
Operator
Telephone: 512 Area Code 884 4571

Railroad Commission Use Only

Approved By: [signature] Title: Engr Date: 4-16-71

* Designates items certified to by company that conducted the inclination surveys

SAN ANTONIO, TEXAS

2-W-50205

APR 1. 1971

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

Laura Thomson

*1. Operator:
Humble Oil & Refining Company

*2. RRC District
2

*3. County
Bee

*4. Lease Name and RRC Lease Number(s) or I. D. Number(s)
Laura T. Barrow "B"

*5. Well Number
25

*6. Location (Section, Block, and Survey):
Miguel De Los Santos (A-64)

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
7. Cementing Date	3-19-71		3-28-71			
*9. (a) Size of Drill Bit (inches)	11		7-7/8			
(b) Kind of Bit ("R" Rotary, "T" Cable, Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)	8-5/8		2-7/8			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	566		5786			
13. (a) Kind and Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use Remarks or reverse side)	A		TIW+4%Gel			
(b) In Second Slurry			H			
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	330		1100			
(b) In Second Slurry			300			
(c) In Third Slurry						
(d) Total Sacks of Cement Used	330		1400			
15. Slurry Volume per Sack of Cement (cu.ft. /sack): (a) In First (Lead) or Only Slurry	1.17		2.43			
(b) In Second Slurry			1.17			
(c) In Third Slurry						
16. Total Slurry Pumped (cu.ft.) (Item 14 x Item 15): (a) In First (Lead) or Only Slurry	270		2673			
(b) In Second Slurry			558			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	270		3231			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	1062		11021			
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes		Yes			

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug, if tagged (ft.)						

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R. R. COMMISSION OF TEXAS
APR 16 1971

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

-- OVER --

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

APR 19 1971

2-40,520

26. Remarks: Humble Oil & Ref. Co.
L.T. Barrow B-25

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Larry Cornejo
Signature of Cementer or Authorized Representative

Larry Cornejo — Service Foreman
Name of Person and Title (type or print)

Byron Jackson Inc.
Cementing Company

P.O. Box 4027
Street Address or P.O. Box

Corpus Christi, Texas — 78408
City, State — Zip Code

Telephone 512 884-6685
Area Code

3-29-71
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

G. R. Jackson
*Signature of Operator or Authorized Representative

G. R. JACKSON, Accountant
*Name of Person and Title (type or print)

Humble Oil & Refining Company
*Operator

Wilson Tower
*Street Address or P.O. Box

Corpus Christi, Texas — 78401
*City, State — Zip Code

*Telephone 512 884-4571
Area Code

April 14, 1971
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

2-205 0205

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-1
(Rev. 12-16-69)

API Well No. 42 — BEE DIST. 2 API NO. 42 025 30092

13

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1. Operator
Humble Oil & Refining Company

2. Address (Including City and Zip Code)
Wilson Tower
Corpus Christi, Texas 78401

3. Is Form 1 in Exact Operator Name Filed?
YES [X] NO [ ]

4. Lease Name
Laura T. Barrow "B"

5. Location (Sec., Blk., Survey)
Miguel De Los Santos (A-64)

6. This well is to be located 10.7 miles Southwest Direction from Woodsboro, Texas Nearest Post Office or Town.

7. RRC District
Two

8. County
Bee

9. Well Number
25

10. Number of Acres in Lease
6,128

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.)
Over 467

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (if applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules, indicate Statewide Rule 37.)	16. Field Rule Proration Unit Pat-tern. (Acres. If no spec-ial rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acre-age presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drill-ing completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Laura Thomson (5600 #4)	5530	--	467 1200	40	40	No	--	Yes	Oil	--	--
Wildcat	6700	--	467 1200	40	40	No	--	Yes	Oil	--	--

RECEIVED R.R.C. OF TEXAS FEB 25 1971 CORPUS CHRISTI, TEXAS

NOTICE
No ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

REMARKS:

CERTIFICATE
I declare under penalties prescribed by Article 6035, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

Signature G. R. Jackson
Title Accountant
Date February 24, 1971
Telephone: Area Code 512 884-4571

- OVER -

025-30092

MAP ID #117

API# 42-025-30168
DRY HOLE

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev 1/1/67

(117)

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

2 FIELD NAME (as per RRC Records): Wildcat

3. LEASE NAME: Laura T. Barrow

4 RRC Lease or Id. Number:

5. Well Number: 10

6. OPERATOR: Humble Oil & Refining Company

10 County: Bee

7 ADDRESS: Wilson Tower, Corpus Christi, Texas 78401

11 Date Drilling Permit Issued: 9-29-72

8 SURFACE LOCATION: 506 FEET FROM E of W LINE, AND 600 FEET FROM SW of N LINE

12. Date Drilling Commenced: 10-3-72

9. SECTION, BLOCK, AND SURVEY: Patrick Downey A-20

13. Date Drilling Completed: 10-7-72

15. Type of Well (Oil, Gas, Dry)*: DRY

16. Type of Completion (Single, Dual, Etc.): —

17. Total Depth: 5800

14. Date Well Plugged: 10-9-72

18. FORM W-1 (Intention to Drill) Filed in Name of: Humble Oil & Refining Company

19. Manner of Placement

PLUG #1	350	SACKS	TOP 0	BOTTOM 1217	TYPE	Class A
PLUG #2		SACKS	TOP	BOTTOM	TYPE	
PLUG #3		SACKS	TOP	BOTTOM	TYPE	
PLUG #4		SACKS	TOP	BOTTOM	TYPE	

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES X NO

21. How was Mud applied? Power Pump

22 Mud Weight: 9.5 LBS/GAL

23 Depth of Deepest Fresh Water: 1100 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO

25 If NO, Explain

26. Name and Address of Party Plugging Well: The Western Co. Box 1126 Robstown, Texas

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8-5/8	647		647	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

29 Was Notice given before Plugging to each of the above and RRC District Office? YES X NO

RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report; that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle
REPRESENTATIVE OF COMPANY

Proration Specialist
TITLE

10-24-72
DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R. R. C. OF TEXAS
NOV 01 1972
[illegible] TEXAS

*All Dry Holes, Fill In Reverse Side.

025 30168

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Wildcat	*2. RRC District 2
*3. Operator Humble Oil & Refining Company	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Laura T. Barrow	*6. Well Number 10
*7. Location (Section, Block, and Survey) Patrick Downey (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date	10/3/72					
*9. (a) Size of Drill Bit (inches)	11"					
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)	8 5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	459					
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use REMARKS or reverse side.)	(A) 12% Gel					
(b) In Second Slurry	(A) 3% CC					
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	200					
(b) In Second Slurry	100					
(c) In Third Slurry						
(d) Total Sacks of Cement Used	300					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	2.19					
(b) In Second Slurry	1.18					
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	438					
(b) In Second Slurry	118					
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)	556					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	Top					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Topped-Out					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. C. OF TEXAS
NOV 01 1972
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

--OVER--

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30168

052-R01F8

26. Remarks:
Humble Oil & Ref. Co.
1600 Wilson Tower Bldg
Corpus Christi, Texas
Cemented 659.67' of 8 5/8 24# Csg With
200 Sks (A) 12% Gel;100 Sks (A) 3% CC
Toped Out With 40 Sks A, 3% CC

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J. W. Wood
Signature of Cementer or Authorized Representative

J. W. Wood Service Foreman
Name of Person and Title (type or print)

Byron Jackson Inc.
Cementing Company

Box 4021
Street Address or P.O. Box

Corpus Christi, Texas 78408
City, State Zip Code

Telephone 512 884-6685
Area Code

10/3/72
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

I. R. Wesson
*Signature of Operator or Authorized Representative

I. R. Wesson, Jr., Drilling Superintendent
*Name of Person and Title (type or print)

Humble Oil & Refining Company
*Operator

Wilson Tower
*Street Address or P.O. Box

Corpus Christi, Texas 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

October 24, 1972
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
      (1) Field Rule
      (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
      (1) the surface, or
      (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-15
(Rev. 8-27-69)

CEMENTING REPORT

(To be filed with each Form G-1, W-2, W-3, or, if tubingless completions, W-4)

*1. Field Name (as per RRC Records or Wildcat) Wildcat	*2. RRC District 2
*3. Operator Humble Oil & Refining Company	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Laura T. Barrow	*6. Well Number 10
*7. Location (Section, Block, and Survey) Patrick Downey (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	10-9-72					
*20. Size of Hole or Pipe in which Plug Placed (inches)	8-5/8 & 7-7/8					
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1217					
22. Sacks of Cement Used (each plug)	350					
23. Slurry Volume Pumped (cu. ft.)	818					
24. Calculated Top of Plug (ft.)	0					
*25. Measured Top of Plug (if tagged) (ft.)	Yes					

RECEIVED
R. R. COMMISSION OF TEXAS
NOV 01 1972
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

-OVER-

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30168

990-0072-1
MEMORANDUM

TO	SUBJECT	
J. L. Galloway	Driller's Log - Laura T. Barrow #10 Laura Thomson Field Bee County, Texas	
FROM	DATE	FILE NO
M. J. Switel C.D.P.	October 26, 1972	

0-2350	Alternating sand and shale
2350-2410	Sand with shale stringers
2410-2660	Alternating shale and shaly sands
2660-3250	Shale with occasional thin sands
3250-3870	Sand, occasionally massive, with shale stringers
3870-4020	Alternating shale and sand with shale stringers
4020-4518	Shale with occasional thin sands
4518-4700	Alternating sand and shale
4700-5588	Shale
5588-5800	Alternating sand and shale

RECEIVED
A.R.L. OF TEXAS
NOV 01 1972
SAN ANTONIO, TEXAS

025-30168

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-1
(3-1-70)

7

API NO. 42 025 30168

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

7. RRC District: 7C
8. County: Bee
1. Operator: Humble Oil & Refining Company
4. Lease Name: Laura T. Barrow
9. Well Number: 10
2. Address (Including City and Zip Code): Wilson Tower, Corpus Christi, Texas 78401
5. Location (Sec., Blk., Survey): Patrick Downey (A-20)
10. Number of Acres in Lease: 6288
6. This well is to be located 7.5 miles Northeast Direction from Papalote, Texas Nearest Post Office or Town.
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 600
3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? Yes [X] NO [ ]

EACH PROPOSED COMPLETION

12. FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13. Completion Depth	14. RRC Lease or ID Number (If applicable)	15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate Rule 37.)	16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate Statewide Rule 38)	17. Number of Acres in Drilling Unit for this Well	18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20. Is this a Regular Location? (Yes or No)	21. Oil, Gas, or other Type Well (Specify)	22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Wildcat Above	6300	--	467 1200	40	40	No	--	Yes	Oil	--	--

RECEIVED R.R.C. OF TEXAS SEP 29 1972 O.G. SAN ANTONIO, TEXAS

NOTICE
NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

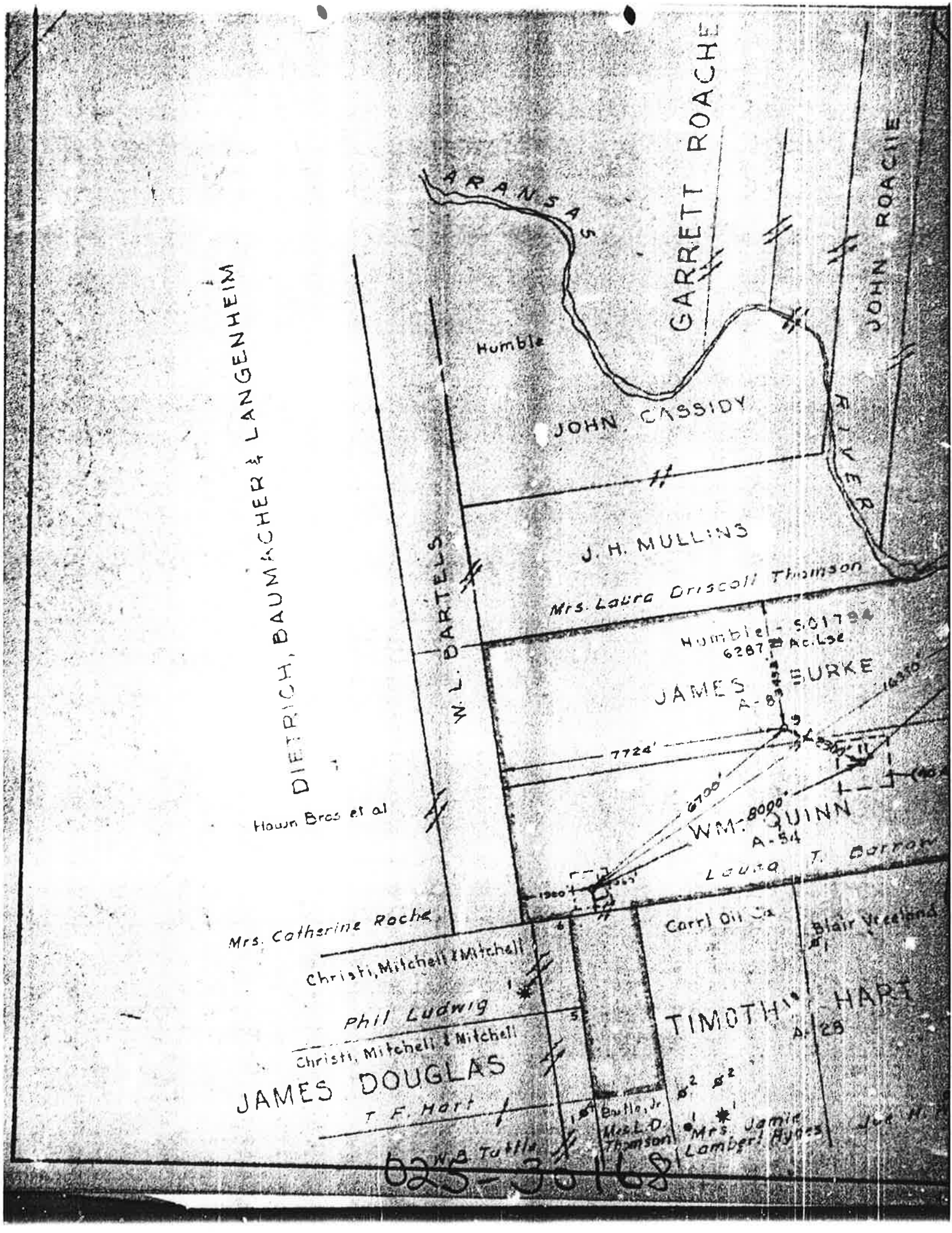
CERTIFICATE
I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REMARKS: 1300' West of Laura Thompson Field

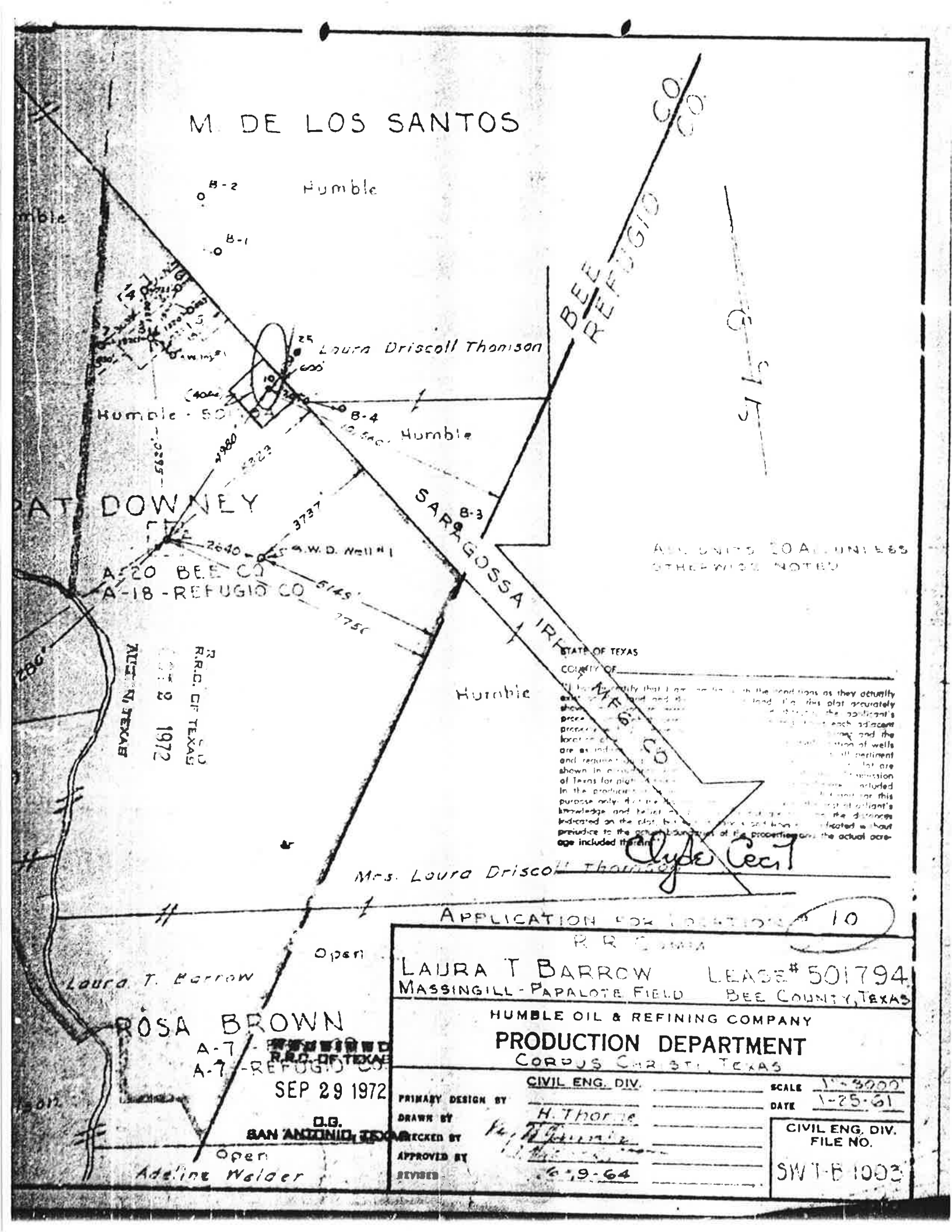
R.R.C. OF TEXAS
SEP 29 1972
AUSTIN, TEXAS

Signature: Grady Coyle
Grady Coyle
Title: Proration Specialist
Date: September 28, 1972
Telephone: Area Code 512 884-4571

- OVER -



ARANSAS
GARRETT ROACHE
JOHN ROACHE
Humble
JOHN CASSIDY
RIVER
J. H. MULLINS
Mrs. Laura Driscoll Thomson
DIETRICH, BAUMACHER & LANGENHEIM
W. L. BARTELS
Humble - 501794
6287 Ac. Lse.
JAMES BURKE
A-8
7724'
6700'
8000'
WM. QUINN
A-54
Laura T. Barrow
Hawn Bros et al
Mrs. Catherine Roche
Christi, Mitchell & Mitchell
Phil Ludwig
Christi, Mitchell & Mitchell
JAMES DOUGLAS
T. F. Hart
W. B. Tuttle
Carrl Oil Co.
Blair Vreeland
TIMOTHY HART
A-28
Mrs. Jamie Lambert Hynes
Mrs. L. D. Thomson
025-30168



LAURA T BARROW LEASE # 501794
MASSINGILL - PAPALOTE FIELD BEE COUNTY, TEXAS

HUMBLE OIL & REFINING COMPANY
PRODUCTION DEPARTMENT
CORPUS CHRISTI, TEXAS

PRIMARY DESIGN BY	CIVIL ENG. DIV.	SCALE	1" = 3000'
DRAWN BY	H. Thorne	DATE	1-25-61
CHECKED BY		CIVIL ENG. DIV. FILE NO.	SWT-B 1003
APPROVED BY			
REVISED	6-9-64		

MAP ID #118

API# 42-025-30239
DRY HOLE

(118)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id. Number:

2 FIELD NAME (as per RRC Records): WILDCAT

3. LEASE NAME: LAURA T. BARRON

5 Well Number: 13

6 OPERATOR: EXXON CORPORATION

10 County: BEE

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 9-25-73

8 SURFACE LOCATION: 1600 FEET FROM [illegible] LINE, AND 6000 FEET FROM [illegible] LINE

12 Date Drilling Commenced: 1-16-74

9 SECTION, BLOCK AND SURVEY: PATRICK DOWNEY SURVEY (A-20)

13 Date Drilling Completed: 1-24-74

15. Type of Well (Oil, Gas, Dry)*: DRY

16. Type of Completion (Single, Dual, Etc.)

17 Total Depth: 5850

14 Date Well Plugged: 1-24-74

18 FORM W-1 (Intention to Drill) Filed in Name of: EXXON CORPORATION

19 Manner of Placement:

PLUG #1	60	SACKS	TOP 1040	BOTTOM 1305	TYPE Class H
PLUG #2	10	SACKS	TOP 0	BOTTOM 30	TYPE Class H
PLUG #3		SACKS	TOP	BOTTOM	TYPE
PLUG #4		SACKS	TOP	BOTTOM	TYPE

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES X NO

21 How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23 Depth of Deepest Fresh Water: 1150 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES X NO

25 If NO, Explain

26 Name and Address of Party Plugging Well: HALLIBURTON SERVICES, Box 111 ALICE, TEXAS 78332

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	1198.54		1198.54	

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

29 Was Notice given before Plugging to each of the above and RRC District Office? YES X NO RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle — BRADY COYLE — PRORATION SPECIALIST — 2-11-74

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED R.R.C. OF TEXAS FEB 12 1974

*All Dry Holes, Fill in Reverse Side.

025 30239

Exxon Company USA
Barrow 13
Bee County, Texas

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) WILDCAT	*2. RRC District 2
*3. Operator EXXON CORPORATION	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA T. BARR	*6. Well Number 13
*7. Location (Section, Block, and Survey) PATRICK DOHNEY SURVEY (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date	1-17-74					
*9. (a) Size of Drill Bit (inches)	9 7/8					
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)	7 5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1198.54					
13. Type API Class Cement & Amount of Additives Used (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	See 26					
(b) In Second Slurry	See 26					
(c) In Third Slurry	See 26					
14. Sacks of Cement Used (a) In First (Lead) or Only Slurry	175					
(b) In Second Slurry	150					
(c) In Third Slurry	50					
(d) Total Sacks of Cement Used	375					
15. Slurry Volume per Sack of Cement (cu. ft./sack) (a) In First (Lead) or Only Slurry	1.55					
(b) In Second Slurry	1.18					
(c) In Third Slurry	1.18					
16. Volume of Slurry Pumped (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	271					
(b) In Second Slurry	177					
(c) In Third Slurry	59					
(d) Total Slurry Volume Pumped (cu. ft.)	507					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	2363					
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (inches)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used (each plug)						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R. R. C. OF TEXAS
FEB 12 1974

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

— OVER —

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

025 30239

26. Remarks: Surface casing cement: 13 a. 175 sacks "H" + 8% Gel + 3% Salt. 13 b. 150 sacks "H" + 2% $CaCl_2$. 13 c. 50 sacks "H" + 3% $CaCl_2$.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

G. A. Goynes

Signature of Cementer or Authorized Representative

G. A. Goynes — Cementer

Name of Person and Title (type or print)

Halliburton Services

Cementing Company

5338 Leopard Street

Street Address or P. O. Box

Corpus Christi, Texas 78408

City, State — Zip Code

Telephone 512 882 6557

Area Code

January 24, 1974

Date

*OPERATOR

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle

*Signature of Operator or Authorized Representative

GRADY COYLE

*Name of Person and Title (type or print)

PRORATION SPECIALIST

EXXON CORPORATION

*Operator

*Street Address or P. O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

*City, State — Zip Code

*Telephone 512 884-4571

Area Code

2-11-74

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-1 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3,
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

Exxon Corp, USA
13 L T Barrow
Presidio Co, Tx

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

624 092

(Rev. 11-1-60)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): WILDCAT	*2. RRC District: 2
*3. Operator: EXXON CORPORATION	*4. County: Pre
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): LAURA T. BARROW	*6. Well Number: 13
*7. Location (Section, Block, and Survey): PATRICK Downey Survey (A-20)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (Give Trade Name of Additive and Amount per Sack if needed. Do NOT Enter API Additives Here.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (Cubic Feet/Sack) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (Cubic Feet) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (Cubic Feet)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	1-24-74	2-24-74				
*20. Size of Hole or Pipe in which Plug Placed (Inches)	6 3/4 x 7 5/8	8 5/8				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1308	30				
22. Sacks of Cement Used (each plug)	60	10				
23. Slurry Volume Pumped (Cubic Ft.)	71	12				
24. Calculated Top of Plug (ft.)	1040	0				
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. OF TEXAS
FEB 12 1974

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE)

– OVER –

* Designated items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

025-30239

EXXON COMPANY, U.S.A.
WILSON TOWER • CORPUS CHRISTI, TEXAS 78401

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

DRILLER'S LOG

FROM	TO	FORMATION
0	12	KB to ground
12	830	Surface sand and shale
830	1130	Sticky shale
1130	1330	Shale
1330	2820	Sand and shale
2820	3144	Shale
3144	4115	Sand and shale
4115	4875	Shale
4875	5167	Shale and sticky shale
5167	5237	Sticky shale
5237	5710	Shale
5710	5850	Sand and shale

I, GRADY COYLE REPRESENTING EXXON CORPORATION DO CERTIFY THAT THE FOREGOING HAS BEEN EXTRACTED FROM THE DAILY DRILLERS REPORT OF THE Laura T. Barrow #13 WELL IN Bee COUNTY, TEXAS AND THAT THE SAME IS A TRUE AND CORRECT STATEMENT OF THE INFORMATION REVEALED IN THE REPORT, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

EXXON CORPORATION

DATE: 2-11-74

BY Grady Coyle
GRADY COYLE

RECEIVED
FEB 12 1974

025-30239

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-1
(3-1-70)

API BEE DIST. 2
API NO. 42 025 30239

7

SPS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

1. Operator
Exxon Corporation

2. Address (Including City and Zip Code)
Wilson Tower
Corpus Christi, Texas 78401

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES [X] ck ✓ NO [ ]

4. Lease Name
Laura T. Barrow

5. Location (Sec., Blk., Survey)
Patrick Downey Survey (A-20)

6. This well is to be located 11 miles W
Direction from Skidmore, Texas
Nearest Post Office or Town.

7. RRC District
2

8. County
Bee

9. Well Number
13

10. Number of Acres in Lease
6287.94

11. Distance from Proposed Location to Nearest Property or Lease Line (ft.)
Over 467'

EACH PROPOSED COMPLETION

12 FIELD NAME (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below.	13 Completion Depth	14 RRC Lease or ID Number (If applicable)	15 Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules indicate statewide Rule 37.)	16 Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate statewide Rule 38)	17 Number of Acres in Drilling Unit for this Well	18 Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.)	19 Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.)	20 Is this a Regular Location? (Yes or No)	21 Oil, Gas, or other Type Well (Specify)	22 Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL	GAS
Laura Thomson (5600)	5634	--	467 1200	40	40	No	--	Yes	Gas	--	--
Wildcat Above 6200'	6200	--	467 1200	40	40	No	--	Yes	Gas	--	--

RECEIVED
R. R. C. OF TEXAS
SEP 24 1973
SAN ANTONIO, TEXAS

SEP 25 1973

16-025-30239

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which (real) water sands must be protected.

REMARKS:

CERTIFICATE

I declare under penalties prescribed in Article 6036, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature Grady Coyle

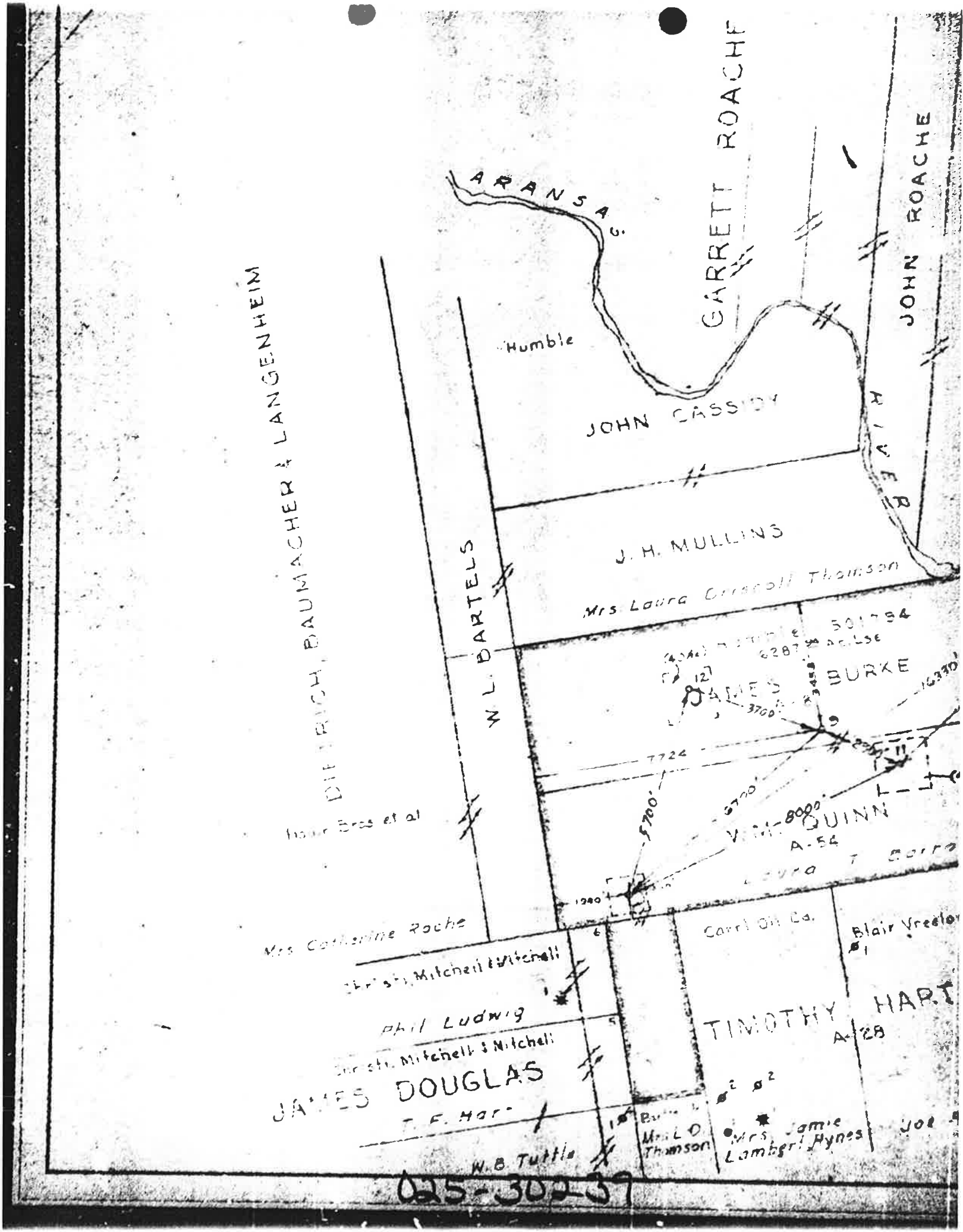
Title Proration Specialist

Grady Coyle

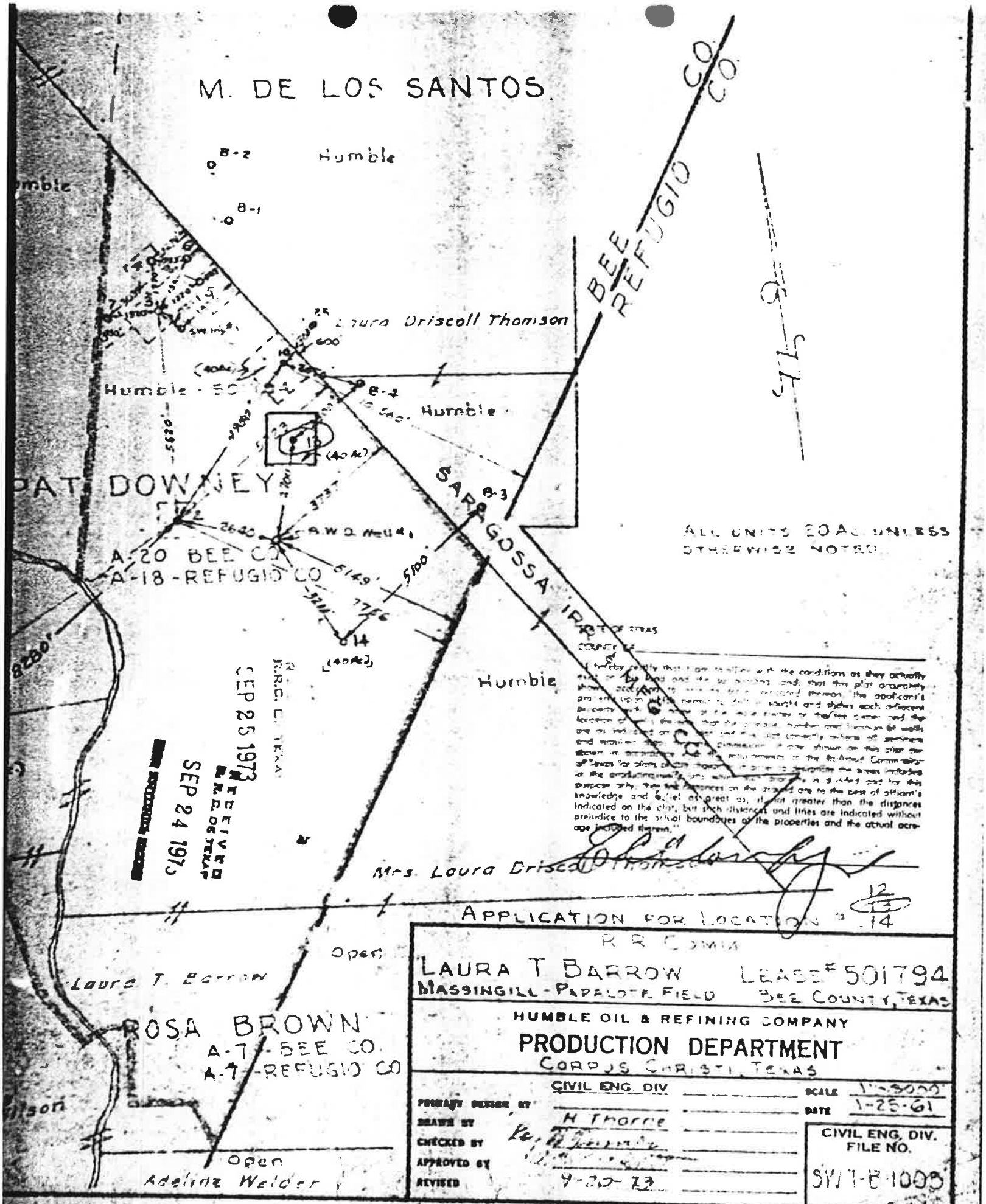
Date September 21, 1973

Telephone: Area Code 512 884-4571

- OVER -


ARANSAS
GARRETT ROACHE
JOHN ROACHE
Humble
JOHN CASSIDY
RIVER
J. H. MULLINS
Mrs Laura Driscoll Thomson
DIETRICH, BAUMACHER & LANGENHEIM
W. L. BARTELS
JAMES BURKE
7724
5700'
8000
W. M. QUINN
A-54
Mrs Catherine Roche
Carrl Oil Co.
Blair Vreelo
Phil Ludwig
TIMOTHY HART
A-28
JAMES DOUGLAS
T. F. Hart
W. B. Tuttle
Mrs L. D. Thomson
Mrs Jamie Lambert Hynes

025-30239



LAURA T BARROW LEASE 501794

BIASSINGILL - PAPALOTE FIELD BEE COUNTY, TEXAS

HUMBLE OIL & REFINING COMPANY

PRODUCTION DEPARTMENT

CORPUS CHRISTI, TEXAS

PREPARED BY	CIVIL ENG DIV	SCALE	1"=3000'
DRAWN BY	H Thorne	DATE	1-25-61
CHECKED BY			
APPROVED BY			
REVISED	4-20-73		

CIVIL ENG. DIV. FILE NO. SW 1-B-1008

MAP ID #119

API# 42-025-02906
DRY HOLE

(119)

Application to Drill, Deepen or Plug Back.

52915

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK Drill

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE,
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND

COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, fo this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 660 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 4900' feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date April 9, 1962

Name of company or operator

Name Humble Oil & Refining Company

Address Wilson Tower

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Laura T. Barrow "B"

Number of Acres 6127.5 Well No. 4

Number of wells on lease 3

Elevation (Ft. above sea level) Section No. Block No.

Survey Saragossa Irr. & Mfg. Co. (A-1250)

Zone or Reservoir

To be Located in Laura Thomson Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.)

Bee County

Approx. 7 Miles Northeast direction from

Papalote, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling as soon as permitted

Depth to which you propose to drill 6700 feet.

Date work will start deepening

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name

Address

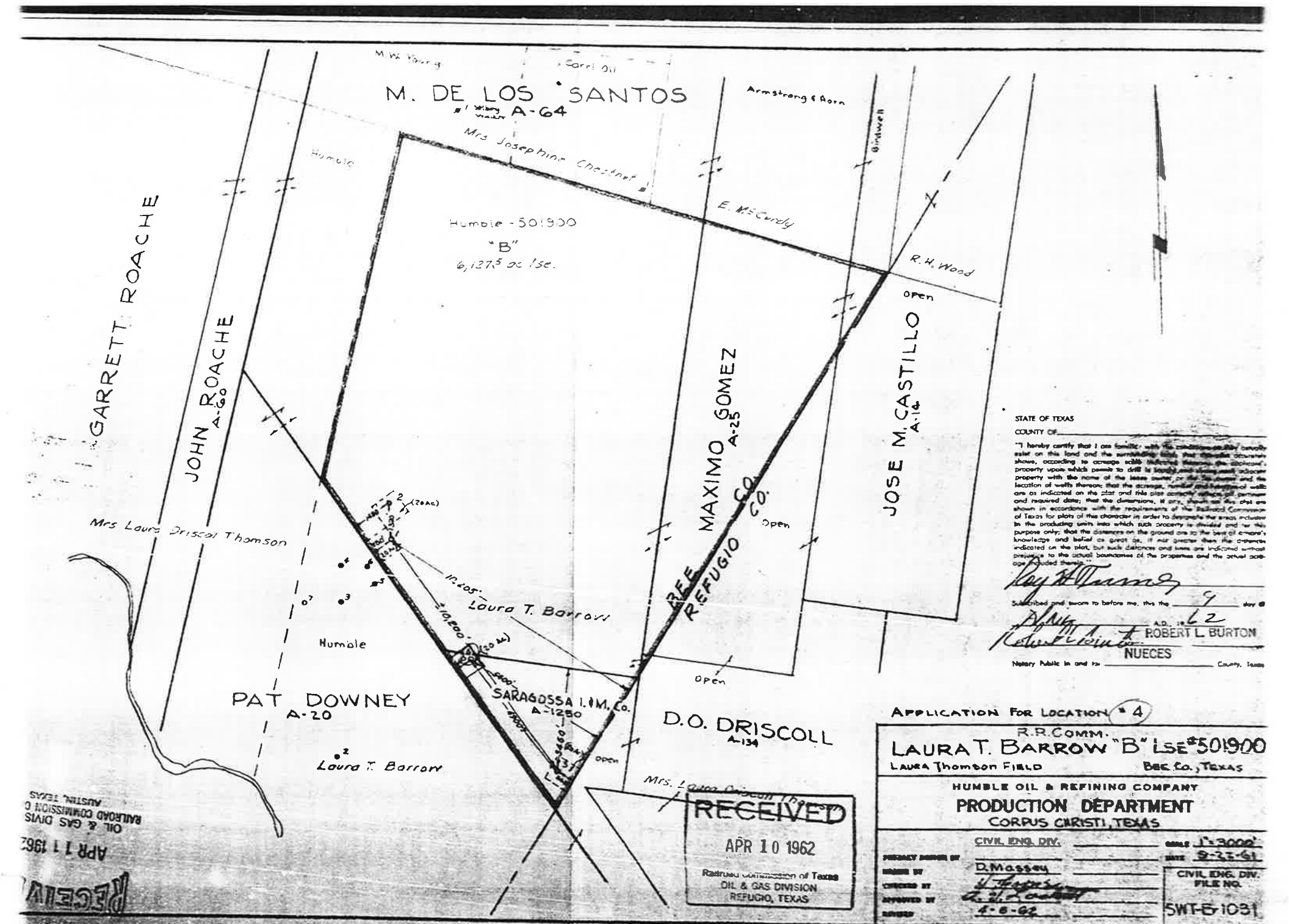
Loc: 660' NE of the SW Line of the Lease and Survey and 5400' NW of the SE Line of the Lease (Bee-Refugio County Line); also being approximately 4900' NW of well No. 3.

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

RECEIVED
APR 10 1962
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

025-02906


M. DE LOS SANTOS
A-64
Mrs Josephine Chestnut
Humble - 501900
"B"
6,127.5 ac lse.
E. McCurdy
R. H. Wood
Armstrong & Horn
Birdwell
Humble
GARRETT ROACHE
JOHN ROACHE
A-60
MAXIMO GOMEZ
A-25
JOSE M. CASTILLO
A-14
BEE CO.
REFUGIO CO.
Open
Mrs Laura Driscol Thomson
Laura T. Barrow
Humble
PAT DOWNEY
A-20
SARAGOSSA I. & M. Co.
A-1250
D.O. DRISCOLL
A-134
Laura T. Barrow
Mrs. Laura Driscoll Thomson
STATE OF TEXAS
COUNTY OF
"I hereby certify that I am familiar with the conditions as they actually exist on this land and the surrounding land, that the plat accurately shows, according to acreage scale indicated thereon, the applicant's property upon which permit to drill is sought and showing each adjacent property with the name of the lease owner or the fee owner and the location of wells thereon; that the acreage, number and location of wells are as indicated on the plat and this plat correctly reflects all pertinent and required data; that the dimensions, if any, shown on this plat are shown in accordance with the requirements of the Railroad Commission of Texas for plats of this character in order to designate the areas included in the producing units into which such property is divided and for this purpose only; that the distances on the ground are to the best of affiant's knowledge and belief as great as, if not greater than the distances indicated on the plat, but such distances and lines are indicated without prejudice to the actual boundaries of the properties and the actual acreage included therein."
Subscribed and sworn to before me, this the 9 day of
A.D., 19 62
ROBERT L. BURTON
NUECES
Notary Public in and for County, Texas
APPLICATION FOR LOCATION #4
R.R. COMM.
LAURA T. BARROW "B" LSE #501900
LAURA Thomson FIELD
BEE CO., TEXAS
HUMBLE OIL & REFINING COMPANY
PRODUCTION DEPARTMENT
CORPUS CHRISTI, TEXAS
CIVIL ENG. DIV.
SCALE 1"=3000'
DATE 9-27-61
D. Massey
4-6-62
CIVIL ENG. DIV. FILE NO.
SWT-B-1031
RECEIVED
APR 10 1962
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS
RECEIVED
APR 11 1962
OIL & GAS DIVIS
RAILROAD COMMISSION O
AUSTIN, TEXAS

Please Refer to File No._____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 2A
Application To Plug and Well Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company Humble Oil & Refining Company Address Wilson Tower, Corpus Christi, Texas

Sec. No. - Block No. - Survey Saragosa, Irr & Mfg. Co. (A-1258) County Bee

Well No. 4 Name of Lease Laura T. Barrow "B" No. of Acres 6127.5 Elev. 98' DF

Name of Field in which well is located Laura Thomson

Located 7 Miles NE Direction from Papalote (Nearest P. O. or Town)

Form 1, "Notice of Intention to Drill," was filed in name of Humble Oil & Refining Company

Drilling Commenced 4-13, 19 62 Drilling Completed 4-23, 19 62

Has this well ever produced Oil? No or Gas? No

Character of Well (Oil, Gas or Dry) Dry Total Depth 6150

Date you wish to Plug April 23, 19 62

Name of Party Plugging Well Carl Vickers, Inc. Address 1716, Wilson Tower, Corpus Christi, Texas

Correspondence regarding this well should be sent to: Name Mr. R. C. Granberry, Jr.

Address Wilson Tower, Corpus Christi, Texas

Initial Production of Gas: Volume (MCF) - 24 hrs. Pressure - lbs. per square inch

Initial Production of Oil: Barrels -

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, whether or not cemented, producing formation, water sands, and as near as possible date well was drilled.

General Remarks:

RECEIVED
MAY 3 1962
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

FILL OUT FORMATION AND AFFIDAVIT ON REVERSE SIDE

DR

FORMATION RECORD

Show All Formations, Especially All Sands and Character and Contents Thereof

FORMATIONS	TOP	BOTTOM	REMARKS
Clay & Sand	0	540	
Shale W/Sand Strks.	540	1227	
Sand & Shale	1227	3107	
Shale	3107	3300	
Sand W/Hard Strks	3300	3919	
Shale & Sand	3919	3952	
Sand W/Hard Strks	3952	4000	
Shale W/ Sand Strks	4000	4305	
Shale	4305	4565	
Shale W/Hard Strks	4565	5195	
Hard Sandy Shale	5195	5275	
Shale W/Hard Strks	5275	5445	
Shale	5445	5615	
Sand	5615	5625	
Shale	5625	5637	
Sand	5637	5666	
Shale	5666	5750	
Sand	5750	5826	
Shale W/Sand Strks	5826	6000	
Hard Sand Strks & Sand	6000	6035	
Shale	6035	6150	
Total Depth	6150		

Railroad Commission of Texas
OIL & GAS DIVISION
AUSTIN, TEXAS
MAY 7 - 1962

Method of shutting off water Casing & Cement Is water completely shut off? Yes

Amount of water with oil per cent

I, T. W. Bynum, Jr. being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct

T. W. Bynum Jr.
Representative of Company.

Subscribed and sworn to before me this 30th day of April, 19 62

J. L. GALLOWAY

J. L. Galloway
Notary Public
Refugio County, Texas.

Please Refer to File No. _____

52015

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 4
Plugging Record

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED

Company Humble Oil & Refining Company Address Wilson Tower, Corpus Christi, Texas

Sec. No. - Block No. - Survey Saragossa Irr. & Mfg. Co. (A-1250) County Bee

Well No. 4 Name of Lease Laura T. Barrow "B" No. of Acres 6127.5

Name of Field in which well is located Laura Thomsen Date well was plugged 4-23, 1962

Form 1 (*Notice of Intention to Drill*) Was Filed in Name of Humble Oil & Refining Company

Character of Well at the time of completion: Oil - bbls; Gas - Cu. Ft.; Dry Yes

Amount well producing when plugged: Oil 0 (Initial Production) bbls; Gas 0 (Initial Production) Cu. Ft.; Water 0 bbls.

Has this well ever produced oil or gas? No

Total Depth 6150 feet. Top of each producing sand No commercial sands feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

How was mud applied? Power Pump

Were plugs used? Yes If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth placed. Also amount of cement and rock. Was well shot? No

Set 200 sack cement plug 5000-6150'; set 200 sack cement plug 500-1700'; set Halliburton squeeze plug at 490' squeezed 20 sacks below plug & spotted 15 sacks on top of plug. Installed 9-5/8" & 2" swedge and 2" plug valve on top of 9-5/8" casing.

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	Ft.	In.	Ft.	In.	Ft.	In.	
8-5/8" & 9-5/8"	511.22		-		511.22		Guide Shoe & Float Collar

Show depth found and thickness of all water, oil and gas formations No. Commercial sands.

Have all abandoned wells on this lease been plugged according to Commissions rules? Yes

Manner of confining all oil, gas or water to strata: Casing & Cement

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows:
Blair-Vreeland, P. O. Box 2413, Corpus Christi, Texas
Carrl Oil Company, P. O. Box 526, Corpus Christi, Texas
Christi, Mitchell & Mitchell Company, Houston Club Building, Houston, Texas

Was notice given before plugging to all available adjacent lease owners as required by Rule 10? Yes

I, T. W. Bynum, Jr., being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

RECEIVED
MAY 2 1962
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

Name T W Bynum Jr Title Admn. Supv.

Subscribed and sworn to before me this 2 day of April, 1962

J B Galloway
Notary Public Refugio County, Texas

Correspondence regarding this well should be addressed to:

Name Mr. R. C. Granberry, Jr. Address Wilson Tower, Corpus Christi, Texas

MAP ID #120

API# 42-025-32026
DRY HOLE

0 0 0 0 1 0 7 5 8

(120)

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 10/78

API NO. 42 (If available) 025 32026

1. RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number:

2. FIELD NAME (as per RRC Records): WILDCAT

3. Lease Name: LAURA T. Barrow 'B'

5. Well Number: 30

6. OPERATOR: Exxon CORP.

6a. Original Form W-1 Filed in Name of: EXXON CORP

10. County: BEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI TX

6b. Any Subsequent W-1's Filed in Name of: EXXON CORP.

11. Date Drilling Permit Issued: 7-21-83

8. Location of Well Relative to Nearest Lease Boundaries of Lease on which Well is Located: 3,200 Feet From SW Line and 2,750 Feet From SE Line of the LAURA T. BARROW 'B' Lease

12. Permit Number: 202384

9a. SECTION, BLOCK, AND SURVEY: MIGUEL DE LOS SANTOS A=764

9b. Distance and Direction From Nearest Town in this County: 12 mi. SE from SKIDMORE

13. Date Drilling Commenced: 10-18-83

16. Type Well (Oil, Gas, Dry): 5770

Total Depth 17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s: GAS ID or OIL LEASE #, Oil-O Gas-G, WELL #

14. Date Drilling Completed: 10-26-83

18. If Gas, Amt. of Condition Hand at time of Plugging:

15. Date Well Plugged: 10-28-83

CEMENTING TO PLUG AND ABANDON DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	10/28/83		10/29/83					
20. Size of Hole or Pipe in which Plug Placed (inches)	8 5/8		8 5/8					
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	1308		25			5		
*22. Sacks of Cement Used (each plug)	70		15					
*23. Slurry Volume Pumped (cu. ft.)	74.2		12					
*24. Calculated Top of Plug (ft.)	1104		0					
25. Measured Top of Plug (if tagged) (ft.)						5		
*26. Slurry Wt. (#/Gal.)	16.4		16.4					
*27. Type Cement	H		H					

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. # FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24	1227	1227	12 1/4

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: Yes X No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

WATER BOARD LETTER DATED 7-25-83

Depth 1100 ft.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM 1308	TO 5770 (OPEN HOLE)	FROM	TO
FROM	TO	FROM 13(A) Exception Dated	TO
FROM	TO	FROM	TO
FROM	TO	FROM Surface Casing	TO ft.
FROM	TO	FROM	TO
		D.V.	ft.

Return to Central Records

I have knowledge that the cementing operations as reflected by the information found on this form were performed as indicated by such information.

* Designates itemized by Cementing Company. Items not so designated shall be completed by Operator.

Buddy Atwood
Signature of Cementer or Authorized Representative

BJ-Hughes Services
Name of Cementing Company

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

M E Hunt
REPRESENTATIVE OF COMPANY M.E. HUNT

UNIT HEAD
TITLE

OCT 23 1984
DATE

Phone 512/887-2228
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED RRC OF TEXAS OCT 26 1984

025-32026

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission	[X] Yes [ ] No	32. How was Mud Applied? PUMPED THRU TUBING	33. Mud Weight 9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by T.D.W.R. TOP	BOTTOM	35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules?	[X] Yes [ ] No
5770			36. If NO, Explain	
Depth of Deepest Fresh Water 1,100				

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well: B. J. HUGHES P.O. BOX 3130 ALICE TEXAS

Date RRC District Office notified of plugging

38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

39. Was Notice Given Before Plugging to Each of the Above?

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[X] Log Attached [ ] Log released to _____ Date _____

Type Logs

[X] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-6 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS

EXXON COMPANY, USA

DRILLER'S LOG

FROM	TO	FORMATION	
0	1360	SAND	CLAY
1360	1799	SAND	SHALE
1799	2421	SAND	CLAY
2421	5220	SAND	SHALE

I, HELEN CASNER, REPRESENTING EXXON CORPORATION, DO CERTIFY THAT THE FOREGOING HAS BEEN EXTRACTED FROM THE DAILY DRILLERS REPORT OF THE LAURA T. BARRON #30 WELL IN Bee COUNTY, TEXAS AND THAT THE SAME IS A TRUE AND CORRECT STATEMENT OF THE INFORMATION REVEALED IN THE REPORT, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

EXXON CORPORATION

DATE: 10/29/84

BY: H E Casner
for HELEN CASNER

OCT 30 1984

0 0 0 0 0 1 0 7 6 2

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W - 15
(Rev. 5-1-80)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Wildcat	*2. RRC District: 2
*3. Operator: Exxon Corporation	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Laura T. Barrow "B"	*6. Well Number: 30
*7. Location (Section, Block, and Survey): Miguel de los Santos (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI STAGE CEMENTING PROCESS: Tool	MULTI STAGE CEMENTING PROCESS: Shoe
*8. Cementing Date	10-19-83					
*9. (a) Size of Drill Bit (inches)	12 1/4					
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)	8 5/8					
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)	1227.4					
13. Type API Cement Used, Amount of Additives Used (a) In First (Lead) or Only Slurry	A, 8% Gel,	5% A-5				
(b) In Second Slurry	A, 2% A-7					
(c) In Third Slurry	A, 2% A-7					
14. Sacks of Cement Used (a) In First (Lead) or Only Slurry	315					
(b) In Second Slurry	250					
(c) In Third Slurry	50					
(d) Total Sacks of Cement Used	615					
15. Slurry Volume per Sack of Cement (cu. ft./sack) (a) In First (Lead) or Only Slurry	1.92					
(b) In Second Slurry	1.18					
(c) In Third Slurry						
16. Volume of Slurry Pumped (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	605					
(b) In Second Slurry	292.5					
(c) In Third Slurry	58.5					
(d) Total Slurry Volume Pumped (cu. ft.)	956.0					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	1250'					
18. Was Cement Circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)	Yes					

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date						
*20. Size of Hole or Pipe in which Plug Placed (in. Sea)						
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)						
22. Sacks of Cement Used in Each Plug						
23. Slurry Volume Pumped (cu. ft.)						
24. Calculated Top of Plug (ft.)						
*25. Measured Top of Plug (if tagged) (ft.)						

OCT 26 1984

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

THIS APPLICATION MUST BE FILED IN DUPLICATE IN THE APPROPRIATE DISTRICT OFFICE.

FORM W-1
1/1/81

API Well No. 42 025-32026
Instruction (7a & b) on back side.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

☐ Directional Well ☐ Sidetrack ☐ Amended Permit (Explain in Remarks)

RRC Permit Number, if previously assigned. 223384

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

Check one: [X] DRILL [ ] DEEPEN (Below Casing) [ ] DEEPEN (Within Casing) [ ] PLUG BACK [ ] RE-ENTER

1. Operator
EXXON CORPORATION

2. Address (Including City and Zip Code)
Wilson Tower
Corpus Christi, TX 78476

3. Is Form P-5 (Organization Report) in Exact Operator Name Filed?
YES [X] NO [ ] (Instruction (2) on back side.)

4a. Lease Name (32 Spaces Maximum)
Laura T. Barrow "B"

4b. RRC Lease or ID No. (if assigned)

5. Location (Sec., Blk., Survey)
Miguel De los Santos (A-64)

6. This well is to be located 11.8 miles SE Direction from Skidmore, TX Nearest Post Office or Town.

7. RRC District
2

8. County
Bee

9. Well Number
130

10. Number of Contiguous Acres in Lease or Unitized Tract
6127.5

11. Distance from Proposed Location to Nearest Lease or Unit Line (ft.)
2750

12. Total Depth
6170

EACH PROPOSED COMPLETION

REFER TO INSTRUCTIONS ON BACK SIDE. READ CAREFULLY AND FURNISH COMPLETE DATA.

13. FIELD NAME (Exactly as shown on R.R.C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. One zone per line. List all zones for which a permit is sought.	14. Completion Depth	15. All Prior Rule 37 Exc. Case Numbers for this wellbore. If none, State None.	16. Applicable Field Rules Spacing Pattern. If no Rules, State 467-1200. (ft.)	17. Applicable Field Rules Density Pattern. If no Rules, State 40. (acres)	18. Number of Acres in Drilling Unit for this Well AND DESIGNATE ON PLAT.	19. Is this acreage presently assigned to another well in same res. on same lease? Yes or No. If yes explain in remarks.	20. Distance and Direction from proposed location to nearest drilling completed or applied for well in same res. on same lease (ft.)	21. Is this a 1. Regular or 2. Rule 37 Exc. Location? Check the appropriate box.	22. Oil, Gas, or other Type Well (Specify)	23. Number of completed, permitted or applied for, locations on this lease in same reservoir for which this permit is sought? OIL	GAS
52285166 Laura Thomson (4850)	4853	---	467-1200	40	40	NO	4225	Regular [X] Rule 37 [ ]	Gas	---	2
Wildcat Above	6170	---	467-1200	40	40	NO	--	Regular [X] Rule 37 [ ]	Oil or Gas	---	---
00004001		Code	1200					Regular [ ] Rule 37 [ ]			
								Regular [ ] Rule 37 [ ]			

24. PERPENDICULAR LOCATION FROM TWO DESIGNATED:
A. Lease Lines 3200' from SW line and 2750' from SE line
B. Survey Lines 225' from S line & 2700' from E line

25. (a) Is this wellbore subject to SWR 36? Yes [ ] No [X]
(b) If subject to SWR 36, has Form H-9 been filed? If no, attach explanation.) [ ]

26. Do you anticipate future use of this wellbore to complete in any penetrated zone not listed in Column 13, for which a Rule 37 or Rule 38 exception is presently required? If Yes, attach a list of such zones and see Instruction #8. Yes [ ] No [X]

27. Is this a pooled unit? YES [ ] (Attach P-12, certified plat, & list of pooled zones) NO [X]

28. Substandard Acreage YES [ ] (Attach W-1A) NO [X]

NOTICE

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

CERTIFICATE

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

REMARKS

RECEIVED RRC OF TEXAS JUL 18 1983 08 SAN ANTONIO, TEXAS

Signature G. F. Presson

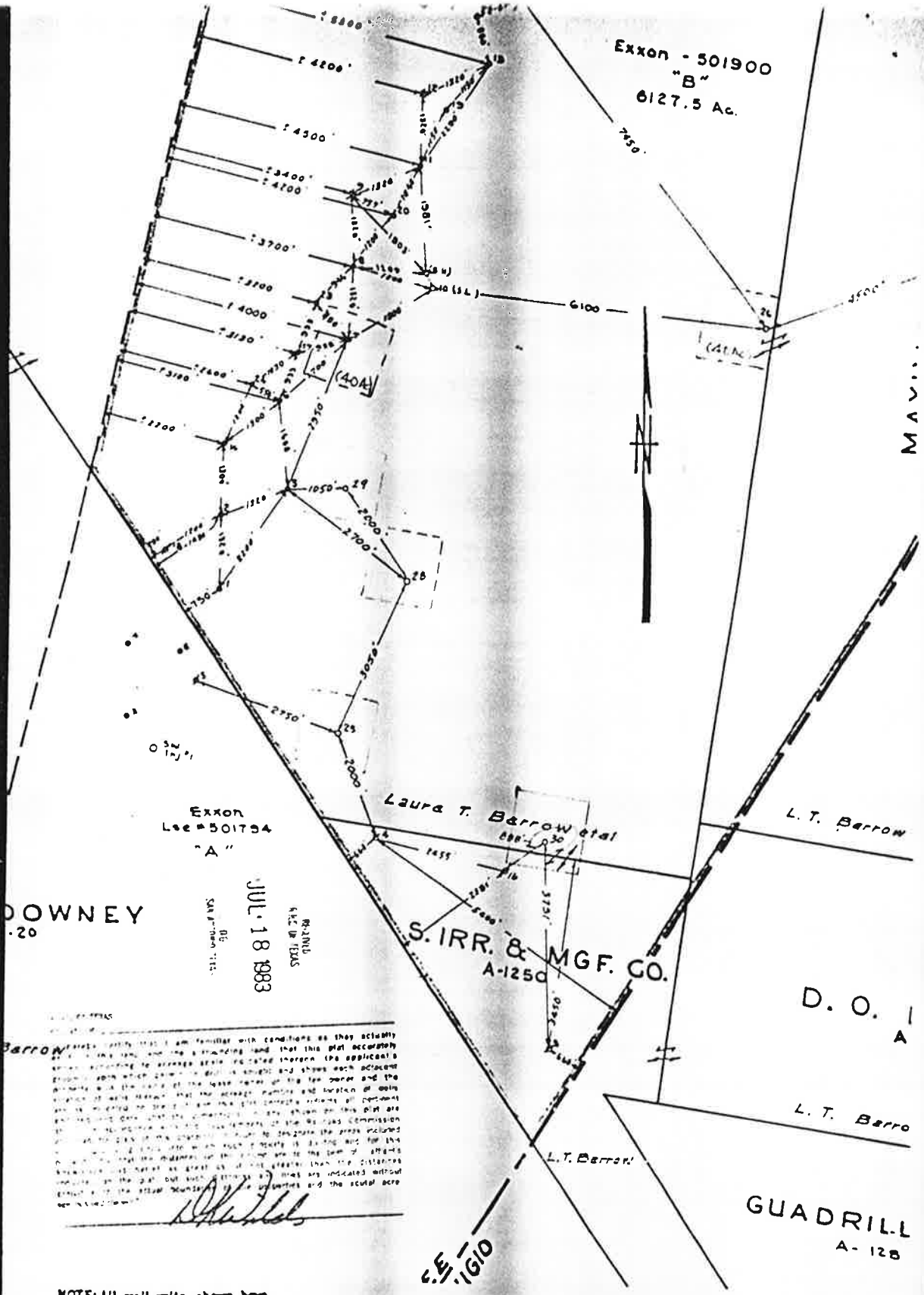
Title G. F. Presson, Proration Specialist

Date July 12, 1982

Telephone Area Code 512 887-2228

READ INSTRUCTIONS ON BACK SIDE AND FURNISH COMPLETE DATA.

025-32026



NOTE: All well units shown have 40 Acres unless otherwise noted.

Application for Location Well No. 30
Located 3200 ft. from SW line
and 2750 ft. from SE line of Lease
Located 325 ft. from S line
and 2700 ft. from E line of Survey
Distances are perpendicular to Lease/Survey

EXXON CO. U.S.A.-S.T.D.-R.R. COMM.

LAURA T. BARROW "B" LEASE NO. 501900
LAURA THOMSON FIELD BEE CO.
MIGUEL DE LOS SANTOS (A-64) SURVEY 6127.5 AC.
SCALE: 1" = 2000' DATE: 7/12/83

MAP ID #121

API# 42-025-02711
OIL WELL
PLUGGED

(121)

Application to Drill,
Deepen or Plug Back

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/60

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DEEPEN OR PLUG BACK Drill

SHALL BE FILED IN DUPLICATE (IN TRIPLICATE IF RULE 37) WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED
DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HERETO MUST BE CLEARLY LEGIBLE,
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT COMMISSION ACTION.
(Black Ink or Black Typewriter Ribbon Preferable)

READ CAREFULLY AND

COMPLY FULLY

In order that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable spacing regulations set down by the Railroad Commission, there are two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, of this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this location and the distance from the proposed location to those wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and shall include proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SKETCH OR BLUE PRINT SHOWS ONLY A SECTION, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Where the size of the tract will permit, use scale of one inch equaling 1000 feet; if less than 2 acres use scale of one inch equaling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SKETCH IS DRAWN. ALSO DESIGNATE NORTHERLY DIRECTION ON THE SKETCH OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR:

Nearest distance from proposed location to property or lease line 2381 feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 2455 feet.

IS THE ACREAGE ON WHICH THIS WELL IS TO BE LOCATED, PRESENTLY ASSIGNED TO ANOTHER WELL IN ANY RESERVOIR FOR WHICH THIS PERMIT IS REQUESTED? No

Date February 24, 1964

Name of company or operator

Name Humble Oil & Refining Company

Address Wilson Tower

City Corpus Christi, Texas

Description of farm or lease:

Name of Lease Laura T. Barrow "B"

Number of Acres 6127.5 Well No. B 16

Number of wells on lease 14

Elevation _____ (Ft. above sea level) Section No. _____ Block No. _____

Survey Saragossa Irr. & Mfg. Co. Survey (A-1250)

Zone or Reservoir _____

To be Located in Laura Thomson Field

(If Wildcat state above, also state Distance and Direction from nearest Survey Lines.) _____

Bee County

approx. 5 Miles NE direction from

Papalote, Texas nearest post office or town.

Rotary or Cable Tools Rotary

Date work will start drilling as soon as permitted.

Depth to which you propose to drill 6800 feet.

Date work will start deepening _____

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

Name _____

Address _____

RECEIVED
FEB 27 1964
Railroad Commission of Texas
OIL & GAS DIVISION
REFUGIO, TEXAS

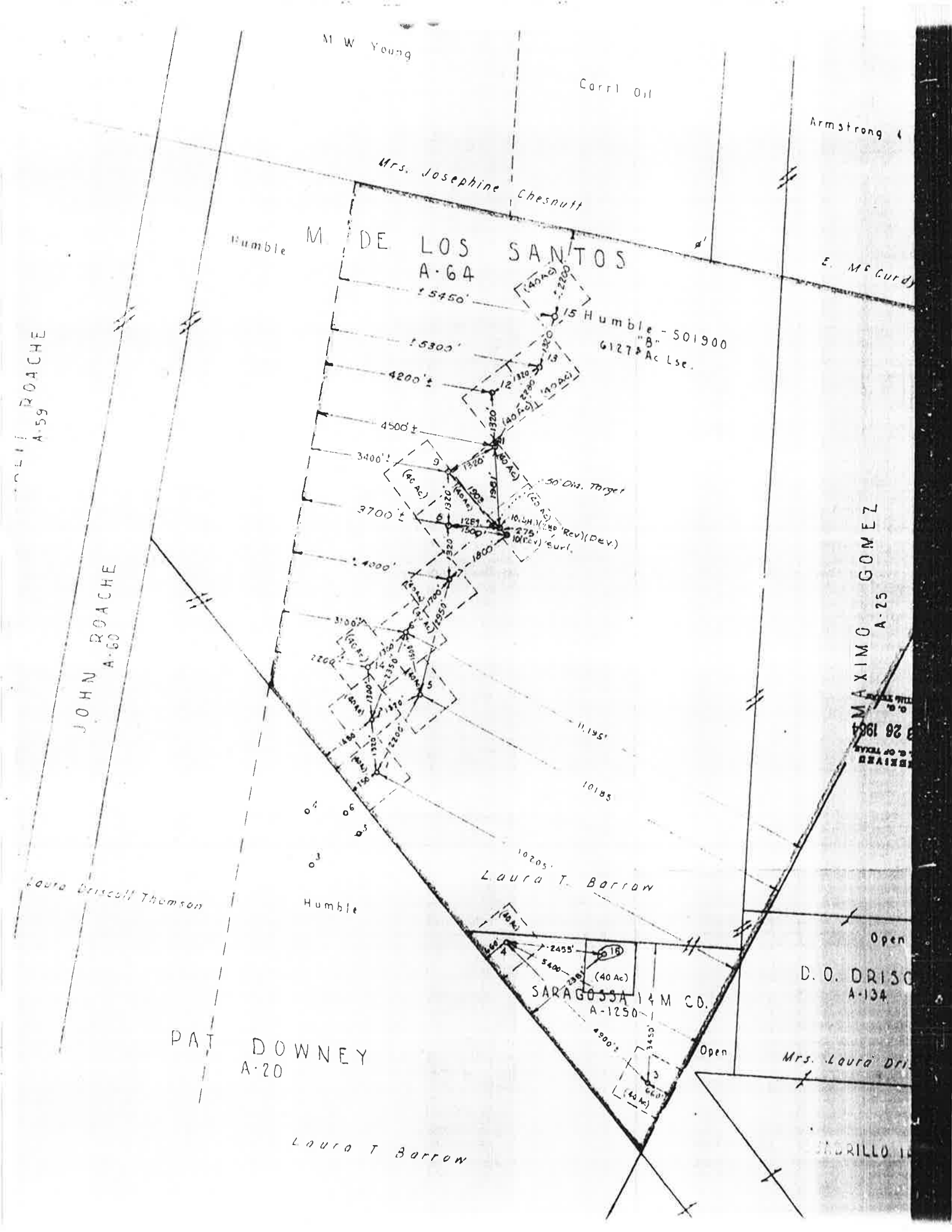
Loc: 2455' SE of ~~Laura T. Barrow "B"~~ #4 & 2381' NE of the SW line of the lease & survey; also being approx. 3100' NW of the SE line of the lease (Bee-Refugio County Line).

FEB 28 1964

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

DRAW SKETCH AND MAKE AFFIDAVIT ON REVERSE SIDE

DR


M W Young
Carrl Oil
Armstrong
Mrs. Josephine Chesnutt
Humble
M DE LOS SANTOS
A-64
E. McCurdy
15 Humble - 501900 "B" 612.5 Ac Lse.
5450'±
5300'±
4200'±
4500'±
3400'±
3700'±
4000'±
50' Dia. Target
JOHN ROACHE
A-60
ROACHE
A-59
MAXIMO GOMEZ
A-25
11,195'
10185
10205'
Laura T. Barrow
Laura Driscoll Thomson
Humble
PAT DOWNEY
A-20
Laura T Barrow
SARAGOSSA I & M CO.
A-1250
D. O. DRISC
A-134
Open
Mrs. Laura Dri
4900'±

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1. RRC District: 2
4. RRC Lease or Id. Number:
2. FIELD NAME (as per RRC Records): LAURA THOMSON
3. LEASE NAME: LAURA T. BARRON 'B'
5. Well Number: 16
6. OPERATOR: EXXON CORPORATION
10. County: BEE
7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
11. Date Drilling Permit Issued: 2-2-64
8. SURFACE LOCATION: 2831 FEET FROM NE of SW LINE, AND 3100 FEET FROM N. W of SE LINE
12. Date Drilling Commenced: 3-11-64
9. SECTION, BLOCK, AND SURVEY: SARAGOSSA IRR. + M G Co. (A-1250).
13. Date Drilling Completed: 5-25-64
15. Type of Well (Oil, Gas, Dry)*: DRY
16. Type of Completion (Single, Dual, Etc.):
17. Total Depth: 6712
14. Date Well Plugged: 5-31-72
18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING COMPANY
19. Manner of Placement: SEE REMARKS

	SACKS	TOP	BOTTOM	TYPE
PLUG #1	80	0	4300	CLASS A
PLUG #2	10	30	40	CLASS A
PLUG #3				
PLUG #4				

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]
21. How was Mud applied? POWER PUMP
22. Mud Weight: 9.5 LBS/GAL
23. Depth of Deepest Fresh Water: 1400 FEET
24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]
25. If NO, Explain:
26. Name and Address of Party Plugging Well: PERFECTION CEMENTING COMPANY, INC., P.O. BOX 887, ALICE, TEXAS 78332
27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
8 5/8"	532		532	
2 7/8"	6694		6694	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS & COMPANY, BOX 1490, ALICE, TEXAS 78332

RECEIVED R.R.C. OF TEXAS
JUL 20 1973
O.G.
SAN ANTONIO, TEXAS

29. Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

RECEIVED R.R.C. OF TEXAS
JUL 19 1973
O.G.
CORPUS CHRISTI, TEXAS

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

M E Hunt — M. E. HUNT — REPRESENTATIVE OF COMPANY

Petrol. Section Head — TITLE

7-19-73 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

DR-40

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☒ Log attached ☐ Log released to _____ Date _____

Type Logs:
☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS 5-25-1964 - SET OTIS PLUG IN 2 7/8" CASING AT 4803 WITH 10' CEMENT ON TOP OF PLUG.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-60)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) LAURA THOMSON	*2. RRC District 2
*3. Operator	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA T. BARRON B'	*6. Well Number 16
*7. Location (Section, Block, and Survey) SARAGOSSA IRR. + MO. CO. (A-1250)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)	Class A					
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu. ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	5-31-72	5-31-72				
*20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8	2 7/8 x 8 5/8				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4800	40				
22. Sacks of Cement Used (each plug)	80	10				
23. Slurry Volume Pumped (cu. ft.)	161.60	20.02				
24. Calculated Top of Plug (ft.)	0	30				
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. OF TEXAS
JUL 19 1973
O. G.
CORPUS CHRISTI, TEXAS

RECEIVED
R.R.C. OF TEXAS
JUL 20 1973
O.G.
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Jerry Hammann
Signature of Cementer or Authorized Representative

Jerry Hammann — Cementer
Name of Person and Title (type or print)

PERFECTION CEMENTING CO., INC.
Cementing Company

P.O. Box 887
Street Address or P.O. Box

Alice, Texas 78332
City, State Zip Code

Telephone 512 664-7667
Area Code

May 31, 1972
Date

*OPERATOR

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

M E Hunt
*Signature of Operator or Authorized Representative

M. E. Hunt Acting Section Head
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

Wilson Tower
*Street Address or P.O. Box

Corpus Christi, Texas 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

7-19-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a sufficient volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10-foot cement plug is required to be placed in the top of the well.

MAP ID #122

API# 42-025-80286
OIL WELL
PLUGGED

Plugging Record 00007

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id. Number: 02907

2. FIELD NAME (as per RRC Records): LAURA THOMSON 5600 No. 41

3. LEASE NAME: LAURA T. BARRON "B"

5. Well Number: 44

6. OPERATOR: EXXON CORPORATION

10. County: BEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11. Date Drilling Permit Issued: 5-31-66

8. SURFACE LOCATION: 2600 FEET FROM E OF N LINE, AND 3300 FEET FROM NE OF SW LINE

12. Date Drilling Commenced: 10-3-66

9. SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS (A-64)

13. Date Drilling Completed: 10-26-66

15. Type of Well (Oil, Gas, Dry)*	16. Type of Completion (Single, Dual, Etc.)	17. Total Depth	14. Date Well Plugged
OIL	SINGLE	5585	8-16-73

18 FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19 Manner of Placement

PLUG #1	5 SACKS	TOP	5355	BOTTOM	5505	TYPE	CLASS H
PLUG #2	15 SACKS	TOP	44	BOTTOM	584	TYPE	CLASS H
PLUG #3	SACKS	TOP		BOTTOM		TYPE	
PLUG #4	SACKS	TOP		BOTTOM		TYPE	

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23 Depth of Deepest Fresh Water: 1600 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25. If NO, Explain:

26 Name and Address of Party Plugging Well: CULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
# 7 5/8"	522.64		518.64	
# 2 7/8"	5571.37		5567.37	

#7 5/8" + 2 7/8" CASING CEMENTED TO SURFACE.

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS & COMPANY, BOX 1490, ALICE, TEXAS 78332

29 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle — GRADY COYLE — PRORATION SPECIALIST — 8-31-73

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION OF TEXAS

RECEIVED
R.R.C. OF TEXAS
SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS CASING CUT OFF 4' BELOW GROUND LEVEL AND WELL CAPPED.

0 0 0 0 7 3 0 9 3 0

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson 15600 No. 41	*2. RRC District 2
*3. Operator (Exxon Corporation)	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Laura T. Barron 'B' 02907	*6. Well Number 3-24
*7. Location (Section, Block, and Survey) M. de Los Santos (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu.ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/16/73	8/16/73				
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"				
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5505'	584'				
22. Sacks of Cement Used (each plug)	5	15				
23. Slurry Volume Pumped (cu. ft.)	5.9	17.7				
24. Calculated Top of Plug (ft.)	5355'	44'				
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED R.R.C. OF TEXAS SEP 4 1973 D.S. SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

D-02907

26. Remarks:
Circ well w 9.5# mud. Installed dry hole marker.
Cut off 4' below grd level & capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J. W. Culberson, Jr.
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr. Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 22, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-31-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

MAP ID #123

API# 42-025-02106
OIL WELL
PLUGGED

Plugging Record 0 0 0 7 3 0 0 0 7

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

1. RRC District: 2

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or Id. Number: 02907

2. FIELD NAME (as per RRC Records): LAURA THOMSON (5600 No. 4)

3. LEASE NAME: LAURA T. BARRON 'B'

5. Well Number: 2

6. OPERATOR: EXXON CORPORATION

10. County: BEE

7. ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11. Date Drilling Permit Issued: 10-13-61

8. SURFACE LOCATION: 2650 FEET FROM E OF W LINE, AND 1000 FEET FROM NE OF SW LINE

12. Date Drilling Commenced: 10-16-61

9. SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS GRANT (A-64)

13. Date Drilling Completed: 10-24-61

15. Type of Well (Oil, Gas, Dry)*: OIL

16. Type of Completion (Single, Dual, Etc.): SINGLE

17. Total Depth: 5700

14. Date Well Plugged: 8-16-73

18. FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19. Manner of Placement

PLUG #1	5	SACKS	TOP 5292	BOTTOM 5442	TYPE CLASS H
PLUG #2	5	SACKS	TOP 1627	BOTTOM 1777	TYPE CLASS H
PLUG #3	15	SACKS	TOP 42	BOTTOM 582	TYPE CLASS H
PLUG #4		SACKS	TOP	BOTTOM	TYPE

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21. How was Mud applied? POWER PUMP

22. Mud Weight: 9.5 LBS/GAL

23. Depth of Deepest Fresh Water: 1575 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25. If NO, Explain

26. Name and Address of Party Plugging Well: CULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
* 8 5/8" + 9 5/8"	522.71		518.71	
** 2 7/8"	5669.13		5665.13	

* 8 5/8" + 9 5/8" CASING CEMENTED TO SURFACE.
2 7/8" CASING - MULTI STAGE TOOL SET @ 1700' AND CEMENT CIRCULATED TO SURFACE.

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS + COMPANY, BOX 1490, ALICE, TEXAS 78332

RECEIVED
R.R.C. OF TEXAS
SEP 4 1973
O.G.
SAN [illegible]

29. Was Notice given before Plugging to each of the above [illegible] Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — PRORATION SPECIALIST — 8-31-73

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS CUT OFF CASING 4' BELOW GROUND LEVEL AND CAPPED WELL.

RECEIVED
STATE OF TEXAS
SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

0 0 0 0 7 3 0 9 0 8

RAILROAD COMMISSION OF TEXAS

Form W-15
(Rev. 11-1-69)

OIL AND GAS DIVISION

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) Laura Thomson 15600 No. 41	*2. RRC District 2
*3. Operator Exxon Corporation	*4. County Bee
*5. Lease Name(s) and RRC Lease Number(s) or L. D. Number(s) Laura Barron "B" 02907	*6. Well Number B-2
*7. Location (Section, Block, and Survey) Mide Los Santos Grant (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

RECEIVED R.R.C. OF TEXAS SEP 4 1973 O.G. SAN ANTONIO, TEXAS

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/16/73	8/16/73	8/16/73			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"	2-7/8"			
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5442'	1777'	582'			
22. Sacks of Cement Used (each plug)	5	5	15			
23. Slurry Volume Pumped (cu. ft.)	5.9	5.9	17.7			
24. Calculated Top of Plug (ft.)	5292'	1627'	42'			
*25. Measured Top of Plug (if tagged) (ft.)						

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

-- OVER --

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

D-02907

26. Remarks:

Circ well w 9.5# mud.
Cut off 4' below grd level, capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J W Culberson Jr
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr., Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 22, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-31-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

MAP ID #124

API# 42-025-02093
OIL WELL
PLUGGED

Plugging Record 00907 RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev. 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id. Number: 02707

2 FIELD NAME (as per RRC Records): LAURA THOMSON 15600 No. 41

3 LEASE NAME: LAURA T. BARRON 'B'

5 Well Number: 1

6 OPERATOR: EXXON CORPORATION

10 County: BEE

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 9-25-61

8 SURFACE LOCATION: 750 FEET FROM NE of SW LINE, AND 1020.5 FEET FROM NW of SE LINE

12 Date Drilling Commenced: 9-27-61

9 SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS GRANT (A-64)

13 Date Drilling Completed: 10-6-61

15 Type of Well (Oil, Gas, Dry)*: OIL

16 Type of Completion (Single, Dual, Etc.): SINGLE

17 Total Depth: 5700

14 Date Well Plugged: 8-16-73

18 FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19 Manner of Placement

PLUG #1	5	SACKS	TOP 5430	BOTTOM 5580	TYPE CLASS H
PLUG #2	5	SACKS	TOP 1336	BOTTOM 1488	TYPE CLASS H
PLUG #3	15	SACKS	TOP 30	BOTTOM 570	TYPE CLASS H
PLUG #4		SACKS	TOP	BOTTOM	TYPE

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [X] NO [ ]

21 How was Mud applied? POWER PUMP

22 Mud Weight: 9.5 LBS/GAL

23 Depth of Deepest Fresh Water: 1100 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [X] NO [ ]

25 If NO, Explain:

26 Name and Address of Party Plugging Well: CULBERSON WELL SERVICE, INC., BOX 2266, VICTORIA, TEXAS 77901

27 Casing and Tubing Record after Plugging

	SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
*	8 5/8" + 9 5/8"	510.17		506.17	
**	2 7/8"	5682.07		5678.07	

* 8 5/8" CASING CEMENTED TO SURFACE.

** 2 7/8" CASING - MULTI STAGE TOOL SET @ 1411' AND CEMENT CIRCULATED TO SURFACE.

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases: HARKINS & COMPANY, BOX 1490, ALICE, TEXAS 78332

29 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Brady Coyle — GRADY COYLE — PRORATION SPECIALIST — 8-31-73

REPRESENTATIVE OF COMPANY — TITLE — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

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RRC OF TEXAS
SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS CASING CUT OFF 4' BELOW GROUND LEVEL AND WELL CAPPED.

(Do not combine this form with any other form or attachment.)

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev. 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): LAURA THOMPSON 15600 No. 41	*2. RRC District: 2
*3. Operator: EXXON CORPORATION	*4. County: Bee
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): LAURA BARRON B 02907	*6. Well Number: B-1
*7. Location (Section, Block, and Survey): M. DE LOS SANTOS GRANT (R-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	8/16/73	8/16/73	8/16/73			
*20. Size of Hole or Pipe in which Plug Placed (inches)	2-7/8"	2-7/8"	2-7/8"			
*21. Depth to Bottom of Tubing or Drill Pipe	5580'	1488'	570'			
22. Sacks of Cement Used (each plug)	5	5	15			
23. Slurry Volume Pumped (cu. ft.)	5.9	5.9	17.7			
24. Calculated Top of Plug (ft.)	6430'	1336'	30'			
*25. Measured Top of Plug (if tagged) (ft.)						

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SEP 4 1973
O.G.
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

Lobo 6

26. Remarks:

Circ well w 9.5# mud.
Cut off 4' below grd level, capped well.

*27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

J. W. Culberson Jr.
Signature of Cementer or Authorized Representative

J. W. Culberson, Jr., Operations Manager
Name of Person and Title (type or print)

CULBERSON WELL SERVICE, INC.
Cementing Company

P. O. Box 2266
Street Address or P.O. Box

Victoria, Texas 77901
City, State Zip Code

Telephone 512 578-3503
Area Code

August 22, 1973
Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle
*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST
*Name of Person and Title (type or print)

EXXON CORPORATION
*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401
*City, State Zip Code

*Telephone 512 884-4571
Area Code

8-31-73
*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface, or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

MAP ID #125

API# 42-025-32801
GAS WELL
PLUGGED

RRC ONLINE SYSTEM

Log In

Form W-1: Review

Status # 457399 **API #** 025-32801	**OP # 350200 - HAMMAN OIL & REFINING COMPANY** Approved ,**Issued:** 01/22/1997 ,**Filed:** Hardcopy	**BAUER, CHATO - Well # 2** 02 - BEE County	**New Drill** Vertical
NEAREST WELL COMMENT: 1428.59 (01/15/1997 12:00:00 AM)			

Status:

Back to Public Query Search Results

General / Location Information

Basic Information:

Filing Purpose	Welbore Profiles	Lease Name	Well #	SWR	Total Depth	Horizontal Wellbore	Stacked Lateral Parent Well DP #
New Drill	Vertical	BAUER, CHATO	2		5400		

Surface Location Information:

API #	Distance from Nearest Town	Direction from Nearest Town	Nearest Town	Surface Location Type
025-32801	12.7 miles	SE	BEEVILLE	Land

Survey/Legal Location Information:

Section	Block	Survey	Abstract #	County
		GARRETT ROACHE	59	BEE

Township	League	Labor	Porcion	Share	Tract	Lot

Perpendicular surface location from two nearest designated reference lines:

Perpendiculars	Distance	Direction	Distance	Direction
Survey Lines	1825.0 feet	from the NW line and	9000.0 feet	from the NE (CREEK) line

Permit Restrictions:

Code	Description
30	WILDCAT ABOVE 5400 FEET.
30	REGULAR PROVIDED THIS WELL IS NEVER DRILLED DEEPER THAN 5400 FEET.
30	ANY WELLBORE DRILLED UNDER THIS PERMIT MUST BE COMPLETED, OPERATED, AND PRODUCED IN COMPLIANCE WITH STATEWIDE RULE 32.

Fields

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to Nearest Well	Distance to Nearest Lease Line	SWR	Pooled/ Unitized
02	**WILDCAT** **Primary Field**	00004001	5400	BAUER, CHATO	2	Oil or Gas Well	220.0				N

Perpendiculars	Distance	Direction	Distance	Direction
Surface Lease Lines	467.0 feet	from the SE line and	2686.3 feet	from the SW line

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to Nearest Well	Distance to Nearest Lease Line	SWR	Pooled/ Unitized
02	**MEDIO CREEK (3900)**	60198375	5400	BAUER, CHATO	2	Gas Well	220.0				N

Perpendiculars	Distance	Direction	Distance	Direction
Surface Lease Lines	467.0 feet	from the SE line and	2686.3 feet	from the SW line

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to Nearest Well	Distance to Nearest Lease Line	SWR	Pooled/ Unitized
02	**MEDIO CREEK (4850)**	60198875	5400	BAUER, CHATO	2	Oil Well	220.0				N

Perpendiculars	Distance	Direction	Distance	Direction
Surface Lease Lines	467.0 feet	from the SE line and	2686.3 feet	from the SW line

Comments

Remark	Date Entered	Entered By
NEAREST WELL COMMENT: 1428.59	01/15/1997 12:00:00 AM	SYSTEM

Attachments

Attachment Type	File Path	Associated Fields and/or Plats

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

READ INSTRUCTIONS ON BACK

PRODUCER'S TRANSPORTATION AUTHORITY AND CERTIFICATE OF COMPLIANCE

FORM P-4
5/90

1 Field name exactly as shown on proration schedule	2. Lease name		
MEDIO CREEK EAST (4730)	CHATO BAUER		
3. Operator name exactly as shown on P-5 Organization Report	4. Operator P-5 no	5. Oil lease no.	6 RRC district no.
HAMMAN OIL AND REFINING COMPANY	350200		02
7. Operator address including city, state, and zip code	8. County in which oil lease or gas well is actually located	9. Gas ID no	10 Gas well no
P. O. BOX 13028 HOUSTON, TEXAS 77219	BEE	163063	2
		11 Effective date ~~6/15/97~~	

12 GAS WELL GAS OR CASINGHEAD GAS Additional space and example on reverse side

Type Operation: gatherer	purchaser	nominator	Name of gatherer, purchaser, and/or nominator as indicated in type operation columns. NOTE: For each purchaser, give its RRC-assigned system code and identify the market. If applicable, place an "X" in the full-well stream column for the gatherer.	RRC USE ONLY G/P/N Code	Purchaser's RRC Assigned System Code	Purchaser's Market: interstate	Purchaser's Market: intrastate	Percent of Take	Full-well stream
	X	X	HPL RESOURCES COMPANY	407204	0021			100	
X			Houston Pipeline						

13 NAME OF OIL OR CONDENSATE GATHERER List highest volume gatherer first	Percent of Take	RRC USE ONLY Gath code
SCURLOCK PERMIAN	100	

14 PURPOSE OF FILING Remarks

a. ☐ New oil lease ☒ New gas well
☐ Reclassification (oil to gas or gas to oil)
☐ Consolidation, unitization or subdivision
b CHANGE ☐ Gatherer ☐ Nominator
☐ Purchaser ☐ Purchaser's system code

RRC USE ONLY
Approved (initials) DAB Oper. No.
Date 7/25/97 Field No.
Remarks:

c CHANGE FROM
☐ Operator
☐ Field Name
☐ Lease Name

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JUN 27 1997

15. OPERATOR CHANGE Being the PREVIOUS OPERATOR, I certify that operating responsibility for wells located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission

Previous Operator _____ Date _____
Signature _____ Name (Print) _____
Title _____ Phone ( ) _____
Address with city/state/zip _____

16 CURRENT OPERATOR'S CERTIFICATION. By signing this certificate as the CURRENT OPERATOR, I acknowledge responsibility for the regulatory compliance of the subject lease, INCLUDING PLUGGING OF WELLS if required under Statewide Rule 14. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.

Signature [signature] Name (Print) MICHAEL A. MARINO
Title ENGINEER Date 6/23//97 Phone (713) 526-7417

I, the Current Operator, certify that the above agent is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property in accordance with the regulations of the Railroad Commission of Texas, and that this authorization will be valid until further notice or until cancelled by the Railroad Commission of Texas, and further certify that the conservation laws of the State of Texas and all rules, regulations and orders of the Railroad Commission of Texas have been complied with in respect to the property covered by this report

☐ check if listings are continued on reverse side

Additional Listings for Gas Well Gas and Casinghead Gas

Type Operation: gatherer	purchaser	nominator	Name of gatherer, purchaser, and/or nominator as indicated in type operation columns. NOTE: For each purchaser, give its RRC-assigned system code and identify the market. If applicable, place an "X" in the full-well stream column for the gatherer.	RRC USE ONLY G/P/N Code	Purchaser's RRC Assigned System Code	Purchaser's Market: interstate	Purchaser's Market: intrastate	Percent of Take	Full-well stream

Example

X			All-Tex Gathering Company					25 00
X	X	X	Trans-Tex Pipelines, Inc		001		X	75 00
	X		All-Tex Oil and Gas Company		003	X		25 00
		X	All-Tex Gasco					25 00

INSTRUCTIONS

Form P-4: Producer's Transportation Authority
and Certificate of Compliance
Reference: Statewide Rule 58

Who Files The operator of any oil, gas well gas, condensate, and/or casinghead gas producing property in the State must file a P-4 for each such property.

Purpose of Filing **The P-4 must be filed to**

- Identify all gatherers, purchasers, purchasers' RRC-assigned system codes, and nominators authorized for each oil lease or gas well. **NOTE: Except during initial testing, no production may leave the oil lease or gas well until the P-4 has been filed and a letter of approval from the Railroad Commission received by all parties** . If, during initial production testing, large quantities of oil or condensate are produced, application may be made on Form P-8: Request for Clearance of Storage Tanks prior to potential test to the appropriate district office for issuance of temporary transportation authority. For initial test purposes, a gas well may produce into a pipeline without a P-4 authorization no more than 30 days.
- Certify that production from the subject property is in accordance with the laws of Texas and the rules, regulations, and orders of the Commission.
- Establish status on Commission records as operator of the subject property.
- Notify the Commission of changes in

  Operator (see No. 6, below) — Field Name (see No. 7, below) — Nominator — Lease Name
  Gatherer — Purchaser System Code — Purchaser — Reclassification (oil to gas or gas to oil)

  or when consolidations, unitizations, or subdivisions take place (see No. 5, below).
  NOTE: When filing a P-4 for changes, the form must be completed in its entirety, not just in areas being changed.

What and Where to File The original only of the P-4 is to be filed with the Railroad Commission in Austin

Oil and Gas Division
P. O. Drawer 12967 — Capitol Station
Austin, Texas 78711-2967

Revocation This authorization may be revoked by the Commission at any time for failure to comply with the oil and gas laws of the State of Texas and the rules, regulations, and orders of the Railroad Commission of Texas.

DETAILED INSTRUCTIONS

1. An effective date is required only when the P-4 is filed for changes.
2. For split connections, percentages of take must be given to no more than two decimal points. Combined percentages for gas or liquid gatherers must equal 100 percent; combined percentages for gas purchasers must equal 100 percent; and, combined percentages for gas nominators must equal 100 percent.
3. An RRC-assigned system code and market identification must be given for each purchaser listed in No. 12. If gas is going full-well stream to a processing plant, an "X" is to be placed in the last column on the line naming the gatherer of that gas.
4. If additional space is required for listings, use an attachment in the same format as Items 12 and 13, including blank areas for Railroad Commission use.
5. The following attachments must be filed for a consolidation, subdivision, or unitization:
   - Form P-6
   - Before and after plats showing changes, distances to lease line and between wells, and, if acreage is in the field's allocation formula, proration units assigned.
   - A letter certifying that there is no overproduction on the subject leases at the time of application.
6. For changes of operator:
   - The Previous Operator must complete Item 15. If impossible, leave blank and attach a letter of explanation and supporting documentation.
   - The Current (new) Operator must have a Form P-5 Organization Report on file with the Commission.
   - If a SWR 14(b)(2) plugging extension has already been granted or is required on the subject property or any well on that property, the Current (new) Operator must make arrangements for a new extension before the P-4 change can be approved.
   - Responsibility for **ALL** wells on an oil lease is to be transferred. Otherwise, the lease must be subdivided.
   - After the P-4 is filled out and signed by both the Previous Operator and the Current Operator, the Previous Operator should file the P-4 with the Commission or ensure that it is filed immediately. NOTE: Responsibility for plugging and all other regulatory compliance obligations will not transfer from the Previous Operator to the Current Operator until the P-4 is filed with and approved by the Commission.
7. Field name changes, that is, transfers, must be reviewed by technical staff. If supporting documents are required, the operator will be notified.
8. To change a gas well number, submit a Form G-1 or a letter of request; do not use Form P-4.

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 12/92

API NO. (if available) 025-32801

1 RRC District: 02

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4 RRC Lease or Id. Number: 163063

2 FIELD NAME (as per RRC Records): Medio Creek East (4730)	3. Lease Name: Chato Bauer	5. Well Number: 2
6. OPERATOR: Hamman Oil & Refining Company	6a. Original Form W-1 Filed in Name of: HAMMAN OIL AND REFINING COMPANY	10. County: Bee
7. ADDRESS: P O Box 13028, Houston, TX 77219	6b. Any Subsequent W-1's Filed in Name of	11. Date Drilling Permit Issued: 1/15/97
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 467 Feet From SE Line and 2686 Feet From SW Line of the Chato Bauer Lease		12. Permit Number: 457399
9a. SECTION, BLOCK, AND SURVEY: Barrett Roache A-59	9b. Distance and Direction From Nearest Town in this County: 12.7 miles SE from Beeville	13 Date Drilling Commenced: 2/17/97
16. Type Well (Oil, Gas, Dry): GAS; Total Depth: 5400	17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s: GAS ID or OIL LEASE #; Oil-O Gas-G; WELL #	14. Date Drilling Completed: 2/24/97
18. If Gas, Amt. of Cond. on Hand at time of Plugging: None		15. Date Well Plugged: 3-25-99

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	3-24	3-24	3-25	3-25	3-25			
20. Size of Hole or Pipe in which Plug Placed (inches)	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2			
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	4594	3584	1350	610	13			
*22. Sacks of Cement Used (each plug)	12	12	12	12	3			
*23. Slurry Volume Pumped (cu. ft.)	13.44	13.44	13.44	13.62	3.54			
*24. Calculated Top of Plug (ft.)	4445	3435	1228	502	3			
25. Measured Top of Plug (if tagged) (ft.)	-	TEST	-	-	-			
*26. Slurry Wt. #/Gal.	16.0	16.0	16.0	15.9	15.6			
*27. Type Cement	H	H	H	H	H			

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R.R.C OF TEXAS
APR 21 1998
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
8 5/8	24.0	560	597	12 1/4
4 1/2	11.60	5399	5396	7 7/8

29. Was any Non-Drillable Material (Other than Casing) Left in This Well: ☐ Yes ☒ No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	5300	TO	5316	FROM	TO
FROM	4841	TO	4856	FROM	TO
FROM	4841	TO	4845	FROM	TO
FROM	4594	TO	4602	FROM	TO
FROM	3584	TO	3588	FROM	TO

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

RECORD CODIFICATION
MAY 25 1999

Signature of Cementer or Authorized Representative

Pat's P & A, Inc.
Name of Cementing Company

CERTIFICATE
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

REPRESENTATIVE OF COMPANY	TITLE	DATE	A/C	NUMBER
MICHAEL A. MARINO	Engineer	4/19/99	Phone 713	526-7417

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: [X] Yes [ ] No

32. How was Mud Applied? Circulated through workstring

33. Mud Weight 10.2 LBS/GAL

34. Total Depth 5400

Depth of Deepest Fresh Water 1300

Other Fresh Water Zones by T.D.W.R.

TOP	BOTTOM

35. Have all Abandoned Wells on this Lease been Plugged according to R R C Rules? [X] Yes [ ] No

36. If NO, Explain

37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well

Pat's P & A, Inc., P.O. Box 0126, Bishop, TX 78343

Date RRC District Office notified of plugging 3-24-99

38. Name(s) and Address(es) of Surface Owners of Well Site

J. W. Bauer
P.O. Box 161
Refugio, Texas 78377

39. Was Notice Given Before Plugging to the Above?

yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

[ ] Log Attached [ ] Log released to _____ Date _____

Type Logs:

[ ] Driller's [ ] Electric [ ] Radioactivity [ ] Acoustical/Sonic

41. Date FORM P-8 (Special Clearance) Filed?

42. Amount of Oil produced prior to Plugging _____ bbls*

* File FORM P-1 (Oil Production Report) for month this oil was produced

RRC USE ONLY

Nearest Field _____

REMARKS Notified Dan Hill with RRC on setting plug tested bottom plugs to 1000 PSI

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Type or print only

Form G-1
Rev. 4/1/83

483-047

API No. 42- 025 32801

7 RRC District No. 02

8. RRC Gas ID No. 163063

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

RECEIVED R.R.C. OF TEXAS MAY 07 1997 OIL & GAS DIVISION SAN ANTONIO, TEXAS

1. FIELD NAME (as per RRC Records or Wildcat): MEDIO CREEK EAST (4730)

2. LEASE NAME: CHATO BAUER

9. Well No.: 2

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): HAMMAN OIL AND REFINING COMPANY

RRC Operator No.: 350200

10. County of well site: BEE

4. ADDRESS: P. O. BOX 13028, HOUSTON, TEXAS 77219

11. Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5. Location (Section, Block, and Survey): GARRETT ROACHE SURVEY A-59

5b. Distance and direction to nearest town in this county.: 12.70 MILES SE FROM BEEVILLE

6. If operator has changed within last 60 days, name former operator

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

13 Pipe Line Connection: HOUSTON PIPELINE

14. Completion or recompletion date: 3/27/97

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [ ] No

16. Type of Electric or other Log Run: DIL-CNL-CDL 6/10/97

Section I — GAS MEASUREMENT DATA

Date of Test: 3/28/97

Gas Measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 80 MCF

Run No.	Line Size	Orif or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp °F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2	9/64	0.444	970						431
2	2	8/64	0.347	1195						415
3	2	7/64	0.261	1320						345
4	2	6/64	0.188	1420						267

RECORD CODIFICATION JUL 25 1997

Section II — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp
0.65	Deg. API	0 CF/Bbl	G_{mix} = 0.65	105 °F	150°F @ 4598' (Depth)

$D_{eff}^{8/3}$ = 6.310

$\sqrt{T_f} = \sqrt{565} = 23.77$

$\sqrt{GL} = \sqrt{(.65)(4598)} = 54.67$

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \frac{1118(6.310)}{23.77} = 296.79$

$\frac{\sqrt{GL}}{C} = \frac{54.67}{296.79} = 0.18420$

Run No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P_w	Wellhead Flow Temp. °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w/P_1
Shut-In	4320								
1	60	9/64	970	60	940.90	79.39	6.303	973	0.99692
2	60	8/64	1195	60	1428.03	76.44	5,843	1197	0.99833
3	60	7/64	1320	60	1742.40	63.55	4.039	1322	0.99849
4	60	6/64	1420	60	2016.40	49.18	2.419	1421	0.99930

Run No.	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (thousands)	$P_f^2 - P_s^2$ (thousands)
Shut—In					1872	3504	
1	0.99846	.09902	1.15348	1.1210	1091	1190	2314
2	0.99917	.09909	1.18592	1.1247	1346	1812	1692
3	0.99925	.09910	1.2056	1.1269	1490	2220	1284
4	0.99965	.09914	1.2210	1.1287	1604	2573	931

Angle of Slope
θ 50.8°
n 0.81637

Absolute Open Flow
790 MCF/DAY

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Signature. Well Tester | Name of Company | RRC Representative

Return to Records Retention

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

MICHAEL A. MARINO — Signature: Operator's representative | ENGINEER — Title | 5/2/97 — Date | (713) 526-7417 — Tel: A/C Number

HS 025-32801

VALID PERMIT
PRODUCTION ALLOCATION

SECTION III — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

MAY 28 1997

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 1/22/97 — PERMIT NO. 457399

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: HAMMAN OIL AND REFINING COMPANY

20. Number of producing wells on this lease in this field (reservoir) including this well:

21. Total number of acres in this lease:

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 2/17/97 — Completed 2/24/97

23. Distance to nearest well, Same Lease & Reservoir: N/A

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 467 Feet From SE Line and 2686.30 Feet from SW Line of the CHATO BAUER Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 150' est GR

26. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

27. Top of Pay	28. Total Depth	29. P. B. Depth	30. Surface Casing Determined by:
4594	5400	5285	Field Rules [ ] Recommendation of T.D.W.R. [ ] Railroad Commission (Special) [X] Dt. of Letter 1/16/97

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: CUDE DRILLING

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24	560		(*)	12 1/4	SURFACE	341
4 1/2	10.50	5399		(**)	7 7/8	CELLAR	1739

37. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
2 3/8	4509	4516

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From	4594	To	4602
From		To	
From		To	
From		To	

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
PERF 5300-16'	Let CIBP @ 5285' + 20' CMT
PERF 4841-56'	Sqz w/30 sks
4841-45'	CIBP @ 4830 + 20' CMT

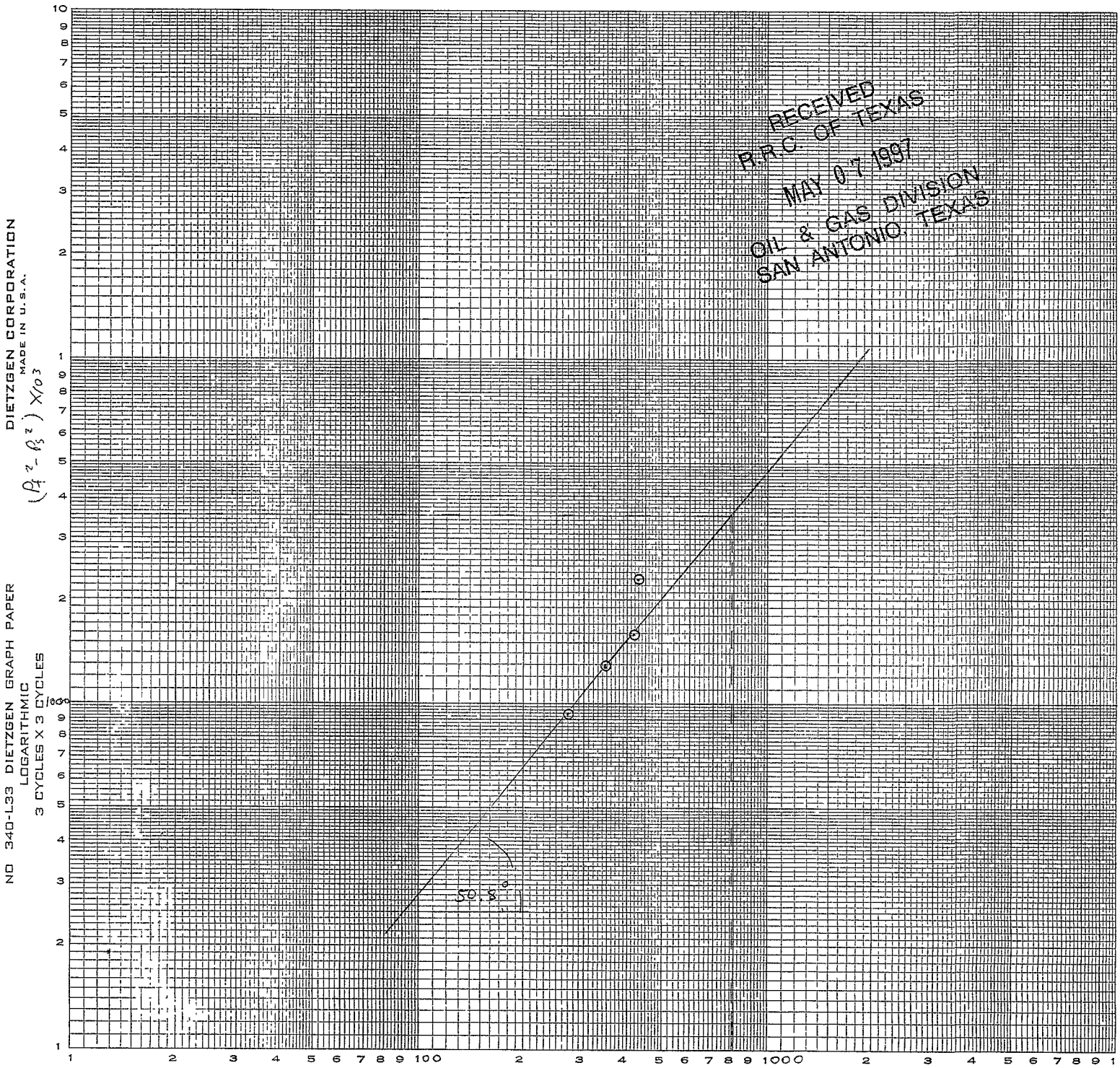
41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
VICKSBURG	4840'		
FRIO	3920'		
CATAHULA	2970'		

REMARKS (*) 94 sks Class H + 13% Gel CSA-122 + 145 sks Class H + 2% Gel
(**) 685 sks Class A + 3% salt + 0.6% HR-7 + 390 sks 50/50 PoZ (A) + 5% salt + 0.5% HALAD-9

HAMMAN OIL & REFINING CO.
CHATO BAJEN No, 2
MEDIO CREEK EAST (4730)
BEE COUNTY, TX

163063



AOF = 790 MCFD

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

READ INSTRUCTIONS ON BACK

GAS WELL CLASSIFICATION REPORT

Form G-5
Rev. 01/01/86

1. OPERATOR NAME (Exactly as shown on Form P-5 Organization Report)
HAMMAN OIL AND REFINING COMPANY

3. RRC DISTRICT NO.
02

4. OIL LEASE NO. OR GAS WELL ID NO.
N/A

2. MAILING ADDRESS
P. O. BOX 13028
HOUSTON, TEXAS 77219

5. WELL NO.
02

6. API NO.
42- 02532801

7. COUNTY OF WELL SITE
BEE

8. FIELD NAME (as per RRC Records)
MEDIO CREEK EAST (4730)

9. LEASE NAME
CHATO BAUER

10. LOCATION (Section, Block, and Survey)
GARRETT ROACH SURVEY A-59

11. PIPELINE CONNECTION OR USE OF GAS
HOUSTON PIPELINE

I. PRODUCTION TEST AT RATE ELECTED BY OPERATOR (data on 24-hour basis)

A. Date of Test 3/27/97

B. Gas Volume 431 (Mcf)

C. Oil or Condensate Volume 0 (Bbl)

D. Water Volume 0 (Bbl)

E. Gas/Liquid Hydrocarbon Ratio 0 (Cf/Bbl)

F. Flowing Tubing Pressure 970 (psia)

G. Choke Size 9/64 (in.)

H. Casing Pressure 14.65 (psia)

I. Shut-in Wellhead Pressure--Tubing 1715 (psia)

J. Separator Operating Pressure N/A (psia)

K. Color of Stock Tank Liquid ---

L. Gravity of Separator Liquid --- °API

M. Gravity of Stock Tank Liquid --- °API

N. Specific Gravity of the Gas (Air = 1) 0.65

II. A.S.T.M. DISTILLATION OF LIQUID SAMPLE. Distillation test is required for gas wells ONLY if the producing gas-liquid hydrocarbon ratio is less than 100,000 CF/barrel.

Date Liquid Sample Obtained _____

Where Obtained: ☐ Separator ☐ Stock Tank

% Over	Temp. (deg. F)	% Over	Temp. (deg. F)
Initial Boiling Temp.		60	
10		70	
20		80	
30		90	
40		95	
50		End Point	

Total Recovery _____ percent

Residue _____ percent

Loss _____ percent

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

5/20/97
DATE

MICHAEL A. MARINO
NAME (Type or Print)

SIGNATURE

ENGINEER
TITLE

M.A. MARINO
CONTACT PERSON

(713)526-7417
PHONE NUMBER

RRC USE ONLY

INSTRUCTIONS

Form G-5: Gas Well Classification Report

This report shall be filed in duplicate in the appropriate Railroad Commission District Office:

(a) Upon completion of a gas well,

(b) Upon reclassification of any well from oil to gas,

(c) Upon reclassification from gas to oil if the gas-oil ratio is more than 12,000 cubic feet per barrel and the oil gravity is more than 50 degrees API,

(d) And upon subsequent requests by the Railroad Commission.

Production Test: The production test data required on this form must reflect representative operating conditions if the well is connected to a sales line. If the well is not connected, the test must be at a stabilized rate. The volumes reported must be on a 24-hour basis.

Liquid Sample: The liquid hydrocarbon sample must be a fresh sample of stock tank liquid or a separator sample which has been flashed to atmospheric pressure and allowed to stabilize at the ambient temperature. If a separator sample is transported to the laboratory in a pressurized container, the sample must be flashed to atmospheric pressure and allowed to stabilize at 60 degrees Fahrenheit before measuring the API Gravity or commencing the distillation test.

NOTICE: NO CONDENSATE OR CRUDE PETROLEUM WILL BE CLEARED FROM A GAS WELL PRIOR TO THE ASSIGNMENT OF AN ALLOWABLE UNTIL THIS REPORT HAS BEEN PROPERLY PREPARED, EXECUTED, AND FILED ALONG WITH A FORM P-4 NAMING THE GATHERER OF THE CONDENSATE AND A REQUEST FOR CLEARANCE (FORM P-8) STATING THE AMOUNT OF CONDENSATE TO BE MOVED.

Reference: Statewide Rule 53

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report.)

6 RRC District: 02

7 RRC Lease Number (Oil completions only):

1. FIELD NAME (as per RRC Records or Wildcat): MEDIO CREEK EAST (4730)

2 LEASE NAME: CHATO BAUER

8. Well Number: 2

3. OPERATOR: HAMMAN OIL AND REFINING COMPANY

9. RRC Identification Number (Gas completions only):

4 ADDRESS: P. O. BOX 13028, HOUSTON, TEXAS 77219

10 County: BEE

5 LOCATION (Section, Block, and Survey): GARRETT ROACHE SURVEY A-59

RECORD OF INCLINATION

*11 Measured Depth (feet)	12 Course Length (Hundreds of feet)	*13 Angle of Inclination (Degrees)	14 Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16 Accumulative Displacement (feet)
350	3.50	1/4	0.44	1.54	
1002	6.52	1/4	0.44	2.87	4.41
1998	9.96	1/4	0.44	4.38	8.79
2185	1.87	3/4	1.31	2.45	11.24
2200	0.15	3/4	1.31	0.20	11.44
3185	9.85	3/4	1.31	12.90	24.34
4124	9.39	1	1.75	16.43	40.77
5095	9.71	1	1.75	16.99	57.77
5400	3.05	1	1.75	5.34	63.10

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MAY 07 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no

18. Accumulative total displacement of well bore at total depth of 5400 feet = 63.10 feet.

*19. Inclination measurements were made in — ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line 467 feet.

21. Minimum distance to lease line as prescribed by field rules 467 feet.

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Signature of Authorized Representative

Weldon P. Cude, President
Name of Person and Title (type or print)

Cude Drilling, Inc.
Name of Company

Telephone: 210 569-6327
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Signature of Authorized Representative

MICHAEL A. MARINO - ENGINEER
Name of Person and Title (type or print)

HAMMAN OIL AND REFINING COMPANY
Operator

Telephone: (713) 526-7417
Area Code

Railroad Commission Use Only:

Approved By: HELMUTH SCHNEIDER Title: GEOL. Date: 5-7-97

* Designates items certified by company that conducted the inclination surveys.

RECORD OF INCLINATION (Continued from reverse side)

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)

Cementer Fill in shaded areas.
Operator Fill in other items

Form W-15
Cementing Report
Rev. 4/1/83
483-045

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1 Operator's Name (As shown on Form P-5, Organization Report)	2 RRC Operator No	3. RRC District No	4 County of Well Site
HAMMAN OIL AND REFINING COMPANY	350200	02	BEE
5 Field Name (Wildcat or exactly as shown on RRC records)		**6 API No**	**7. Drilling Permit No**
MEDIO CREEK EAST (4730)		42- 02532801	457399
8 Lease Name	**9 Rule 37 Case No**	**10. Oil Lease/Gas ID No**	**11 Well No.**
CHATO BAUER			2

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		2/19/97	T.N.R.C.C. LETTER DATED		1-22-97		
13. •Drilled hole size		12 1/4	Depth		1300'	ft.	
•Est % wash or hole enlargement		50%	13(A) Exception Dated		1-23-97		
14 Size of casing (in. O D)		8 5/8	Surface Casing		540'	ft.	
15. Top of liner (ft)			D.V. @			ft.	
16 Setting depth (ft)		554					
17 Number of centralizers used							
18 Hrs. waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks ▶	94					
	Class ▶	H					
	Additives ▶	13% Gel CSA-122					
2nd Slurry	No. of sacks ▶	145					
	Class ▶	H					
	Additives ▶	2% CaCl					
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped Volume (cu. ft.) ▶	170.14					
	Height (ft.) ▶	412.23					
2nd	Volume (cu ft.) ▶	171.10					
	Height (ft) ▶	414.57					
3rd	Volume (cu ft) ▶						
	Height (ft) ▶						
Total	Volume (cu ft) ▶						
	Height (ft) ▶						
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		GROUND					

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R.R.C. OF TEXAS
MAY 07 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG #.7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

JOHN McCANN — Name and title of cementer's representative

ROWELL SVC. INC. — Cementing Company

Signature

P.O. BOX 461 — Address

REFUGIO — City,

TX — State,

78377 — Zip Code

512 526-2232 — Tel.: Area Code Number

2 — Date: mo.

19 — day

97 — yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

MICHAEL A. MARINO — Typed or printed name of operator's representative

ENGINEER — Title

Signature

P. O. BOX 13028, HOUSTON, TEXAS — Address

77219 — City, State, Zip Code

(713) 526-7417 — Tel.: Area Code Number

5/2/97 — Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. **What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete Form W-15, **in addition to Form W-3, to show any casing cemented in the hole.**

B. **Where to file.** The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator: Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev.4/1/83
Lbrtn1096

1 Operator's Name (As Shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No	4 County of Well Site
HAMMAN OIL AND REFINING COMPANY	350200	02	BEE

5 Field Name (Wildcat or Exactly as Shown on RRC Records)	6 API No	7 Drilling Permit No
MEDIO CREEK EAST (4730)	42- 02532801	457399

8 Lease Name	9 Rule 37 Case No	10 Oil Lease/Gas ID No	11 Well No
CHATO BAUER			2

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12 Cementing Date				2/26/97			
13. *Drilled Hole Size				7 7/8			
*Ext. % Wash or Hole Enlargement				CALIPER + 20%			
14 Size of Casing (in. O.D.)				4 1/2			
15. Top of Liner (ft)							
16. Setting Depth (ft)				5399			
17. Number of Centralizers Used							
18. Hrs. Waiting on Cement Before Drill-Out				49			
1st Slurry	19. API Cement Used: No. of Sacks >			685			
	Class >			HLC (A)			
	Additives >			REMARKS			
2nd Slurry	No. of Sacks >			390			
	Class >			50/50 POZ (A)			
	Additives >			REMARKS			
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20 Slurry Pumped: Volume (cu ft.) >			1267 25			
	Height (ft) >			5563.1			
2nd	Volume (cu.ft) >			471.9			
	Height (ft) >			2071 59			
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >			1739.15			
	Height (ft) >			7634.69			
21 Was Cement Circulated to Ground Surface (or Bottom of Cellar) Outside Casing?				YES			

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MAY 07 1997
OIL & GAS DIVISION
SAN ANTONIO, TEXAS

22 Remarks

HAMMAN OIL & REFINING
CHATO BAUER #2
BEE COUNTY TEXAS
TKT #167085

Additives 1st Cmt: 3% Salt, 0.6% HR-7
Additives 2nd Cmt: 5% Salt, 0.5% Halad-9

NO CEMENT RETURNS

OVER ▶

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (inches)								
25. Depth to Bottom of Tubing or Drill Pipe (feet)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu.ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

CEMENTERS CERTIFICATE. I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

CURTIS CONNALLY — SERVICE SUPERVISOR
Name and Title of Cementer's Representative

HALLIBURTON ENERGY SERVICES
Cementing Company

Curtis L. Connally
Signature

101 HOLT ROAD — VICTORIA, TEXAS — 77905-5555
Address — City — State — Zip Code

800/448-0645 OR 512/575-1443
Tel: Area Code Number

3/1/97
Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

MICHAEL A. MARINO — ENGINEER
Typed or Printed Name of Operators Representative — Title

Michael A. Marino
Signature

P. O. BOX 13028, HOUSTON, TEXAS — 77219
Address — City — State — Zip Code

(713) 526-7417
Tel: Area Code Number

5/2/97
Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For **offshore** operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

* An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules:
* Form **W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
* Form **W-3,** Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting **dry** holes, operators must complete **W-15, in addition to Form W-3, to show any casing cemented in the hole.**

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rull 12 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Please Read Instructions

ELECTRIC LOG STATUS REPORT

FORM L-1

Rev. 12/88

INSTRUCTIONS

When to file the L-1

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period of confidentiality has not yet expired

When the L-1 is NOT required

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas, and geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to file the L-1

- with the appropriate Commission district office

Filling out the L-1

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such a log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SEE REVERSE SIDE

SECTION I. IDENTIFICATION

Operator Name: HAMMAN OIL AND REFINING COMPANY		District No.: 02	Completion Date: 3/27/97
Field Name: MEDIO CREEK EAST (4730)		Drilling Permit No.: 457399	
Lease Name: CHATO BAUER		Lease ID No.:	Well No.: 2
County: BEE		API No.: 42 - 025 32801	

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SECTION II. LOG STATUS (complete either A. or B.)

[ ] A. BASIC ELECTRIC LOG NOT RUN

[X] B. BASIC ELECTRIC LOG RUN (select one)

- [X] 1. Confidentiality requested.
- [ ] 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- [ ] 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- [ ] 4. Log attached to (select one)
  - [ ] (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____.
    Check here if attached log is being submitted after being held confidential [ ].
  - [ ] (b) Form P-7, Application for Discovery Allowable and New Field Designation.
  - [ ] (c) Form W-4, Application for Multiple Completion: lease or ID no.(s) _____ _____, well no.(s) _____.

signature	ENGINEER (title)	
MICHAEL A. MARINO (name print)	(713) 526-7417 (phone)	5/2/97 (date)

For Railroad Commission use only

Electric Log Filing Requirements

As required by statute (T.N.R.C. Chapter 91, Subchapter M) and defined by Statewide Rule 16 (see copy below), a legible, unaltered final copy of a basic electric log run on a well must be filed with the completion report for that well (Form W-2 and Form G-1) or the plugging report for that well if it is a dry hole (Form W-3). The electric log will become a part of the public record.

You may, however, request a one-year period of confidentiality during which the log will be kept in your possession. Prior to the expiration of the initial period of confidentiality, you may request a renewal for a two-year period. Logs of wells drilled on land submerged in State water may be granted an additional two-year extension. At the end of the period(s) of confidentiality, a copy of the basic electric log must be filed with the Commission. The Commission will send you a notice prior to expiration of the confidentiality period(s). NOTE: **electric logs submitted in conjunction with an application for multiple completion or a new field designation are considered part of the public records; confidentiality cannot be granted them.**

§3.16 RULE 16. Log and Completion or Plugging Report. (Effective February 28, 1986)

(a) The owner or operator of an oil, gas or geothermal resource well, within thirty (30) days after the completion of such well or the plugging of such well, if the well is a dry hole, shall file with the Commission the appropriate completion or plugging report, and if a basic electric log is run on the well, a legible, unaltered final copy of such log shall be attached. A "basic electric log" means a lithology, porosity, or resistivity log run over the entire wellbore or in the alternative, if no such log is run over the entire wellbore, the log which is the most complete of such logs run. Amended completion reports must be filed for any change in perforations, or openhole or casing records within thirty (30) days after recompleting the well. In addition, if the well is deepened, a copy of a basic electric log run after September 1, 1985 should be submitted if such log is run over a deeper interval than the interval covered by a basic electric log already on file with the Commission for that wellbore.

(b) Each log filed with the Commission shall be considered public information and shall be available to the public during normal business hours. If the owner or operator of such well described in subsection (a) of this section desires log(s) to be confidential, the owner or operator must submit a written request for a delayed filing of the log(s). When filing such a request, the owner or operator must retain the log(s) and may delay filing such log(s) for one (1) year beginning from the date the completion or plugging report is required to be filed with the Commission. The owner or operator of such well may request an additional filing delay of two (2) years, provided the written request is filed prior to the expiration date of the initial confidentiality period. If a well is drilled on land submerged in state water, the owner or operator may request an additional filing delay of two (2) years so that a possible total filing delay of five (5) years may be obtained. A request for the additional two (2) year filing delay period must be in writing and be received prior to the expiration of the first two (2) year filing delay. Logs must be filed with the Commission within thirty (30) days after the expiration of the final confidentiality period.

(c) If the logs are not filed in accordance with the provisions of this section, the Commission may refuse to assign an allowable to a well or may set the allowable for such well at zero. If the well is a dry hole and the logs are not filed in accordance with the provisions of this section, the Commission may initiate penalty action pursuant to Title 3 of the Texas Natural Resources Code.

Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

File a copy of W-1 and plat in RRC District Office. Read Instructions on Back.

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [X] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: API No. 42-025 32801; Permit No. 457399 AMD; Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): HAMMAN OIL AND REFINING COMPANY
3. RRC Operator No.: 350200
4. RRC District No.: 02
5. County of Well Site: BEE

2. Address (including city and zip code): P. O. BOX 13028, HOUSTON, TEXAS 77219
W 5.13.97 949398

6. Lease Name (32 spaces maximum): CHATO BAUER
7. RRC Lease/ID No:
8. Well No.: 2
9. Total Depth: 5400'

10. Location
• Section _____ Block _____ Survey GARRETT ROACHE Abstract No. A-59
• This well is to be located 12.70 miles in a SE direction from BEEVILLE, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 467 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 220.00 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	21. GAS
60198100 MEDIO CREEK (VICKSBURG F-1)	4840	467/1200	40	40	NO	N/A	G		2
MEDIO CREEK EAST(4730)	4600	467/1200	40	40	No	N/A	G		2
60199600									

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 467 FSEL, 2686.30 FSWL
• Survey/Section 1825 FNWL, 9000 ~~FNEL (CREEK)~~

If a directional well, show also projected bottom-hole location:
• Lease/Unit _____
• Survey/Section _____

23. Is this a pooled unit? Yes [ ] (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)? Yes [ ] (Attach Form W-1A) No [ ]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [ ] If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37. Yes [ ] No [ ]

Remarks
ADD FIELDS:

I certify that information stated in this application is true and complete, to the best of my knowledge.

Signature: _____ Name and title of operator's representative: MICHAEL A. MARINO

Date: 5/5/97 (mo. day yr.) Tel.: (713) 526-7417 (Area Code Number)

150 PAD

• RRC Use Only •
211547 MAY 1397

457399

MAPPING 025-32801

Instructions to Form W-1

NOTICE: Review Statewide Rule 5, *Application to Drill, Deepen, Reenter, or Plug Back*, paragraph (c) for eligibility of an organization to file a W-1 application.

A. IMPORTANT: Do not begin drilling operations on any location until you receive a drilling permit from the Commission, and the waiting-clause period, if specified in the permit, has ended.

B. **Organization Report.** Before this application can be processed, a **Form P-5,** Organization Report, showing the exact operator name used on Form W-1, must be on file with the Commission in Austin.

C. **Fee.** With each W-1 application or materially amended W-1 application, the applicant must submit the applicable fee to the Commission in Austin. A check or money order must be made payable to the State Treasurer of Texas. This fee is nonrefundable. An application will be considered materially amended if the amendment requires the issuance of a new permit. A materially amended application includes an application in which an additional field or a change in location or field is sought for a previously permitted well. However, if a new application and/or permit becomes necessary because of Commission action, the fee may be waived.

D. **Surface casing.** Before the Commission will assign an allowable to a well, the operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Water Commission. Before drilling a well where Commission rules do not specify surface casing requirements, the operator must obtain a letter from the Department stating the protection depth. Write: TWC, Surface Casing, P. O. Box 13087, Capitol Station, Austin, Texas 78711-3087.

E. **What to file.** File Form W-1, a plat and the applicable fee in the Commission's Austin office. Send a copy of the W-1 and plat to the RRC District Office that serves the county of the proposed well site.

F. **Plat.** Each W-1 must be accompanied by a neat, accurate plat of the lease or unit which clearly shows the following:

For a REGULAR location (where the proposed site conforms to Commission rules)

- Drilling unit boundary for the proposed location and proration unit boundaries for each producing well on this lease or unit which is completed in the same field. Show the acreage contained in each unit. For Commission purposes, lease or unit acreage must be contiguous unless an exception to Statewide Rule 39 is granted. If a Rule 39 exception has previously been granted for the lease or unit, **attach a copy of the RRC approval.**
- Surface location of the proposed site. If the well is to be directionally drilled, show also the projected bottom-hole location.
- Perpendicular distance to nearest intersecting: (a) lease/unit lines and (b) survey/section lines. To avoid confusion, distinguish between the two sets of lines.
- Distance to nearest applied for, permitted, or completed well on this lease or unit in the same field.
- Section, block, or lot.
- Northerly direction.
- Scale. Where the size of the lease or unit will allow, use a scale of 1" = 1,000'. If it is not practical to show the entire lease or unit on the plat, attach a second plat, drawn to a scale no smaller than 1" = 2,000', to show the entire lease or unit in relation to the patent survey. Enter on Form W-1 (Item 12) the acreage for the entire lease or unit.
- On a pooled unit, outline the entire lease or unit as well as the individual tracts listed on Form P-12, Certificate of Pooling Authority.

For a RULE 37 or RULE 38 Exception (where spacing or acreage is less than prescribed by rule)

- A **certified** plat of the entire lease or unit which includes the information described above; and
- A list of the names and addresses of all offsetting operators or unleased mineral interest owners of each tract which is contiguous to the drill site tract. If you do not have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract, and if the well requires a Rule 37 or 38 exception, list also the name and address of the person who has this right. The list should refer to the plat clearly so as to enable the Commission to readily identify each tract and its operator or mineral owner.

  NOTE: If you penetrate a Rule 37 or 38 zone in which you do not propose to complete at this time, you will not necessarily be allowed to use the existence of this wellbore as justification for an exception to complete this wellbore in such zone in the future.

G. **Specific Items.**

Item 13. **Field name.** Use only field designations, including reservoir, approved by the Commission (not proposed field names). Enter "Wildcat" if the reservoir has no RRC field designation and give the total projected depth under "Completion Depth." If the well is to be drilled in a multi-pay area, list all established and wildcat zones for which a completion is proposed. If necessary, attach additional Form W-1's to list these zones.

Item 15. **Spacing pattern.** If the proposed location of the well is in a field with special field rules, enter the appropriate spacing pattern. If there are no field rules in effect, Statewide Rule 37 spacing applies. Rule 37 requires wells to be spaced at least 467 feet from lease lines and 1,200 feet from other wells completed in the same reservoir and on the same lease, with one well to each 40 acres. However, if the proposed location is in RRC Districts 7B, 9, or in McCulloch County (District 7C), and in a field with no special field rules adopted, a district (or county regular) rule will apply, with special spacing and depth controls for wells drilled to 5,000 feet or above.

Item 16. **Density pattern.** If the proposed location is in a field with special field rules, enter the appropriate density pattern. If there are no field rules in effect, Statewide Rules 37 and 38 apply, allowing one well to each 40 acres. However, if the proposed location is in RRC Districts 7B, 9, or in McCulloch County (District 7C), and in a field with no special field rules adopted, the special spacing and depth controls in Rule 38(b) govern density.

Scale: 1" = 1000'

Note: Location falls approximately 12.7 miles southeast of the City of Beeville, Bee County, Texas.

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R.R.C. OF TEXAS
MAY 13 1997
OIL & GAS DIVISION
AUSTIN TEXAS

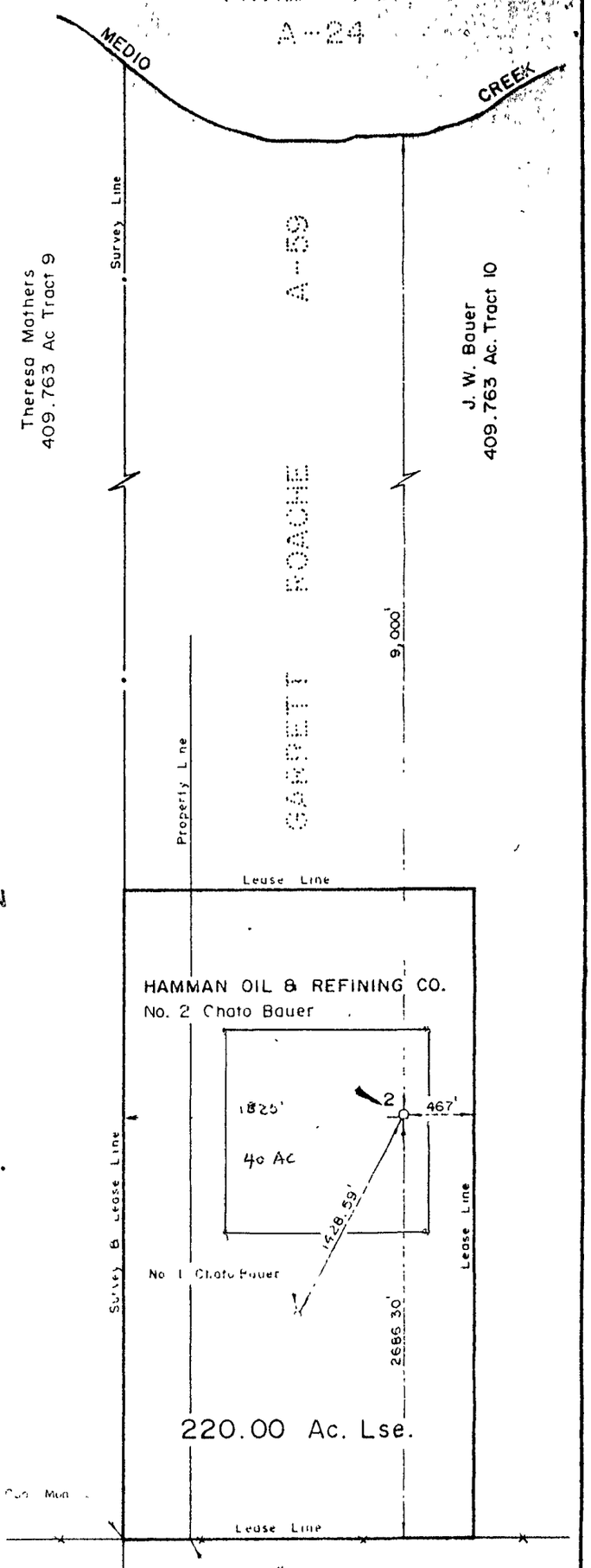
HAMMAN OIL & REFINING CO.

NO. 2 CHATO BAUER

220.00 ACRE LEASE

GARRETT ROACHE SURVEY A-59

BEE COUNTY, TEXAS



State of Texas }
County of Bee }

I hereby certify that this plat accurately represents a survey made on the ground under my direction

George E. Harris
Registered Professional Land Surveyor
No 826

Date January 7, 1996

STATE OF TEXAS
REGISTERED
GEORGE E. HARRIS
826
PROFESSIONAL
LAND SURVEYOR

HARRIS ENGINEERING
P.O BOX 426 (512) 358-1793
BEEVILLE, TEXAS 78104

File 97003

W-1 COMPLIANCE CERTIFICATION

FORM W-1C

9/1/91

Railroad Commission of Texas
Oil and Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

Reference: TNRC 91.110

ATTACH TO DRILLING PERMIT APPLICATION

WHEN TO FILE: A Form W-1C, "W-1 Compliance Certification," is to accompany any filing of Form W-1, "Application for Permit to Drill, Deepen, Plug Back, or Re-Enter." This includes initial and materially amended applications. The W-1C is attached only to the W-1 filed with Austin; a copy does not have to be attached to the W-1 copy filed with the district office.

This certification is binding on the named organization. Failure to file the W-1C will delay approval of the W-1 application. Filing a false statement may be a violation of TNRC 91.143 and may also subject a permit to denial or revocation.

VIOLATION means non-compliance with Title 3, TNRC or a Commission rule, order, license, permit, or certificate that relates to safety or the prevention or control of pollution.

OUTSTANDING FINAL ORDERS. An organization has an outstanding final order against it if:

- a Commission order finding a violation has been entered and all appeals have been exhausted; or
- the Commission and the organization have entered into an agreed order relating to an alleged violation;

AND

(1) the conditions that constituted a violation have not been corrected;

(2) all administrative, civil, and criminal penalties relating to any conditions constituting a violation have not been paid; and

(3) all reimbursements of costs and expenses assessed by the Commission to be collected in relation to any conditions constituting a violation have not been collected.

CERTIFICATION STATEMENT: I certify:

(1) that the applicant organization named below has no outstanding final orders against it; and

(2) that no owner of more than 25 percent ownership interest, officer, director, general partner, or trustee of the applicant organization named below has within the last five years held a position of ownership or control in any organization (including the named organization) that has an outstanding final Commission order against it relating to a violation, during that period of ownership or control.

HAMMAN OIL AND REFINING COMPANY
organization name

RECEIVED
R.R.C. OF TEXAS
MAY 13 1997
OIL & GAS DIVISION
AUSTIN TEXAS

representative's signature

MICHAEL A. MARINO
representative's name (print or type)

ENGINEER
representative's title

713 526 7417
phone number with area code

5/6/97
date

▶ Return each W-1 with plat and applicable fee. Make a check or money order payable to the State Treasurer of Texas.

▶ Address to:
Railroad Commission of Texas
Oil and Gas Division, Drilling Permits
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Application for Permit to Drill, Deepen, Plug Back, or Re-Enter

▶ File a copy of W-1 and plat in RRC District Office ▶ Read Instructions on Back

Form W-1
Rev. 3/93

EFFECTIVE SEPT. 1, 1991, PERMIT APPLICATION FEE WILL VARY ACCORDING TO THE TOTAL DEPTH SHOWN IN ITEM NO. 9 BELOW.
0-2000' - $100, 2001' - 4000' - $125
4001' - 9000' - $150 9001' or deeper - $200

Purpose of filing (mark appropriate boxes):
[X] Drill [ ] Deepen (below casing) [ ] Deepen (within casing) [ ] Plug Back [ ] Re-Enter
[ ] Horizontal [ ] Directional Well [ ] Sidetrack [ ] Amended Permit (enter permit no. at right & explain fully in Remarks)

Enter here, if assigned: ▶ API No. 42-025-32801 ▶ Permit No. 451399 ▶ Rule 37 Case No.

1. Operator's Name (exactly as shown on Form P-5, Organization Report): HAMMAN OIL AND REFINING COMPANY
3. RRC Operator No.: 350200
4. RRC District No.: 2
5. County of Well Site: BEE

2. Address (including city and zip code):
P. O. BOX 13028
HOUSTON, TEXAS 77219
OK 1.15.97
967341

6. Lease Name (32 spaces maximum): CHATO BAUER
7. RRC Lease/ID No.:
8. Well No.: 2
9. Total Depth: 5400

10. Location
• Section ____ Block ____ Survey GARRETT ROACHE Abstract No. A-59
• This well is to be located 12.7 miles in a SE direction from BEEVILLE, which is the nearest town in the county of the well site.

11. Distance from proposed location to nearest lease or unit line: 467 ft.
12. Number of contiguous acres in lease, pooled unit, or unitized tract: 220 (OUTLINE ON PLAT.)

13. FIELD NAME (Exactly as shown on RRC proration schedule). List all established and wildcat zones of anticipated completion. Attach additional Form W-1's as needed to list these zones. One zone per line.	14. Completion depth	15. Spacing pattern (ft.)	16. Density pattern (acres)	17. Number of acres in drilling unit for this well. OUTLINE ON PLAT.	18. Is this acreage assigned to another well on this lease & in this reservoir? If so, explain in Remarks.	19. Distance from proposed location to nearest applied for, permitted, or completed well, this lease & reservoir. (ft.)	20. Oil, gas, or other type well (Specify)	21. No. of applied for, permitted, or completed locations (including this one) on lease in this reservoir. OIL	GAS
WILDCAT 4001	0-5400'	467/1200	40	40	NO	---	O/G	1	1
MEDIO CREEK (4850) 6019875	4850	467/1200	40	40	NO	---	O	1	
MEDIO CREEK (3900) 6019875	3900	467/1200	40	40	NO	1429'	G		2

22. Perpendicular surface location from two nearest designated lines:
• Lease/Unit 467' FSEL & ~~2686' FSWL~~ 2186.29 FSWL
• Survey/Section 1825' FNWL & 9000' ~~FNEL~~ (CREEK)

If a directional well, show also projected bottom-hole location:
• Lease/Unit
• Survey/Section

23. Is this a pooled unit? FNE(CREEK)L
Yes [ ] ▶ (Attach Form P-12 and certified plat.) No [X]

24. Is Item 17 less than Item 16 (substandard acreage for any field applied for)?
Yes [ ] ▶ (Attach Form W-1A) No [X]

25. Is this wellbore subject to Statewide Rule 36 (hydrogen sulfide area)? Yes [ ] No [X]
If subject to Rule 36, is Form H-9 filed? Yes [ ] No [ ] ▶ If not filed, explain in Remarks.

26. Do you have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract? If not, and if the well requires a Rule 37 or 38 exception, see Instructions for Rule 37.
Yes [X] No [ ]

Remarks

150 WPC 205873 JAN 1997

I certify that information stated in this application is true and complete, to the best of my knowledge.

Bill Goodwin — BILL GOODWIN - ENG. MGR.
Signature — Name and title of operator's representative

1/10/97 — (713) 526-7417
Date. mo. day yr. — Tel.: Area Code Number

• RRC Use Only •

451399

1982 GAS WELL

Instructions to Form W-1

NOTICE: Review Statewide Rule 5, *Application to Drill, Deepen, Reenter, or Plug Back*, paragraph (c) for eligibility of an organization to file a W-1 application.

A. IMPORTANT: Do not begin drilling operations on any location until you receive a drilling permit from the Commission, and the waiting-clause period, if specified in the permit, has ended.

B. **Organization Report.** Before this application can be processed, a **Form P-5,** Organization Report, showing the exact operator name used on Form W-1, must be on file with the Commission in Austin.

C. **Fee.** With each W-1 application or materially amended W-1 application, the applicant must submit the applicable fee to the Commission in Austin. A check or money order must be made payable to the State Treasurer of Texas. This fee is nonrefundable. An application will be considered materially amended if the amendment requires the issuance of a new permit. A materially amended application includes an application in which an additional field or a change in location or field is sought for a previously permitted well. However, if a new application and/or permit becomes necessary because of Commission action, the fee may be waived.

D. **Surface casing.** Before the Commission will assign an allowable to a well, the operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Water Commission. Before drilling a well where Commission rules do not specify surface casing requirements, the operator must obtain a letter from the Department stating the protection depth. Write: TWC, Surface Casing, P. O. Box 13087, Capitol Station, Austin, Texas 78711-3087.

E. **What to file.** File Form W-1, a plat and the applicable fee in the Commission's Austin office. Send a copy of the W-1 and plat to the RRC District Office that serves the county of the proposed well site.

F. **Plat.** Each W-1 must be accompanied by a neat, accurate plat of the lease or unit which clearly shows the following:

For a REGULAR location (where the proposed site conforms to Commission rules)

- Drilling unit boundary for the proposed location and proration unit boundaries for each producing well on this lease or unit which is completed in the same field. Show the acreage contained in each unit. For Commission purposes, lease or unit acreage must be contiguous unless an exception to Statewide Rule 39 is granted. If a Rule 39 exception has previously been granted for the lease or unit, **attach a copy of the RRC approval.**
- Surface location of the proposed site. If the well is to be directionally drilled, show also the projected bottom-hole location.
- Perpendicular distance to nearest intersecting: (a) lease/unit lines and (b) survey/section lines. To avoid confusion, distinguish between the two sets of lines.
- Distance to nearest applied for, permitted, or completed well on this lease or unit in the same field.
- Section, block, or lot.
- Northerly direction.
- Scale. Where the size of the lease or unit will allow, use a scale of 1" = 1,000'. If it is not practical to show the entire lease or unit on the plat, attach a second plat, drawn to a scale no smaller than 1" = 2,000', to show the entire lease or unit in relation to the patent survey. Enter on Form W-1 (Item 12) the acreage for the entire lease or unit.
- On a pooled unit, outline the entire lease or unit as well as the individual tracts listed on Form P-12, Certificate of Pooling Authority.

For a RULE 37 or RULE 38 Exception (where spacing or acreage is less than prescribed by rule)

- A **certified** plat of the entire lease or unit which includes the information described above; and
- A list of the names and addresses of all offsetting operators or unleased mineral interest owners of each tract which is contiguous to the drill site tract. If you do not have the right to develop the minerals under any right-of-way that crosses, or is contiguous to, this tract, and if the well requires a Rule 37 or 38 exception, list also the name and address of the person who has this right. The list should refer to the plat clearly so as to enable the Commission to readily identify each tract and its operator or mineral owner.

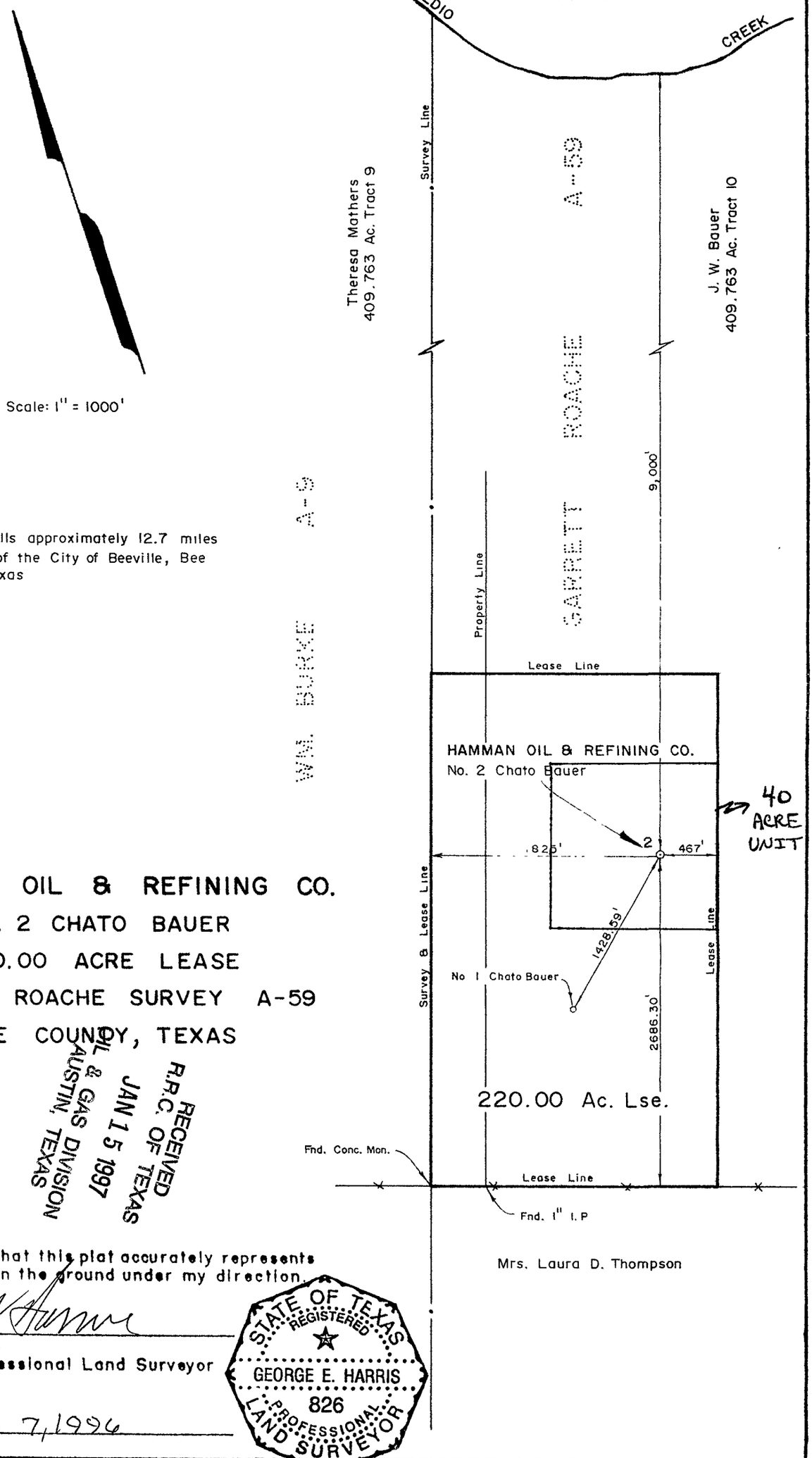
  NOTE: If you penetrate a Rule 37 or 38 zone in which you do not propose to complete at this time, you will not necessarily be allowed to use the existence of this wellbore as justification for an exception to complete this wellbore in such zone in the future.

G. **Specific Items.**

Item 13. **Field name.** Use only field designations, including reservoir, approved by the Commission (not proposed field names). Enter "Wildcat" if the reservoir has no RRC field designation and give the total projected depth under "Completion Depth." If the well is to be drilled in a multi-pay area, list all established and wildcat zones for which a completion is proposed. If necessary, attach additional Form W-1's to list these zones.

Item 15. **Spacing pattern.** If the proposed location of the well is in a field with special field rules, enter the appropriate spacing pattern. If there are no field rules in effect, Statewide Rule 37 spacing applies. Rule 37 requires wells to be spaced at least 467 feet from lease lines and 1,200 feet from other wells completed in the same reservoir and on the same lease, with one well to each 40 acres. However, if the proposed location is in RRC Districts 7B, 9, or in McCulloch County (District 7C), and in a field with no special field rules adopted, a district (or county regular) rule will apply, with special spacing and depth controls for wells drilled to 5,000 feet or above.

Item 16. **Density pattern.** If the proposed location is in a field with special field rules, enter the appropriate density pattern. If there are no field rules in effect, Statewide Rules 37 and 38 apply, allowing one well to each 40 acres. However, if the proposed location is in RRC Districts 7B, 9, or in McCulloch County (District 7C), and in a field with no special field rules adopted, the special spacing and depth controls in Rule 38(b) govern density.



Scale: 1" = 1000'

Note · Location falls approximately 12.7 miles southeast of the City of Beeville, Bee County, Texas

HAMMAN OIL & REFINING CO.

NO. 2 CHATO BAUER

220.00 ACRE LEASE

GARRETT ROACHE SURVEY A-59

BEE COUNTY, TEXAS

RECEIVED
R.R.C. OF TEXAS
JAN 15 1997
OIL & GAS DIVISION
AUSTIN, TEXAS

State of Texas I
County of Bee I

I hereby certify that this plat accurately represents a survey made on the ground under my direction.

George E. Harris
Registered Professional Land Surveyor
No. 826

Date January 7, 1996

STATE OF TEXAS
REGISTERED
GEORGE E. HARRIS
826
PROFESSIONAL
LAND SURVEYOR

HARRIS ENGINEERING

P.O. BOX 426 (512) 358-1793
BEEVILLE, TEXAS 78104

File: 97003

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

MICHAEL L. WILLIAMS,
CHAIRMAN
CHARLES R. MATTHEWS,
COMMISSIONER
TONY GARZA, COMMISSIONER

RICHARD A. VARELA
DIRECTOR, OIL AND GAS DIVISION
DEBBIE LAHOOD
ASST-DIRECTOR, PERMITTING/PROD

1701 N. CONGRESS | CAPITOL STATION - P.O. BOX 12967 AUSTIN, TEXAS 78711-2967 | (512) 463-7288

May 1, 2000

DIST: 02 BEE
BAUER, CHATO
HAMMAN OIL & REFG. CO.
MEDIO CREEK, EAST (4730)
RRCID NO. 163063

API NO. 025-32801
WELL NO. 2

Dear Operator:

The final period of confidentiality for the log on the above property is due to expire at the end of this month. Under the provisions of Statewide Rule 16, the log must be submitted to the Railroad Commission by the expiration date. Failure to do so will result in your allowable being cancelled and/or penalty action pursuant to Title 3 of the Texas Natural Resource Code.

Please complete the bottom portion of this letter and return this letter with the log to the above address to the attention of Central Records. If you have any questions, call the Log Desk at (512) 463-6887.

Return to Records Retention

MAY 2000 LOG RECD RECORDS

Sincerely,

DEBBIE LAHOOD
ASST-DIRECTOR, PERMITTING/PROD
OIL AND GAS DIVISION

COMPLETE THE FOLLOWING AND RETURN THIS LETTER WITH THE LOG

RECEIVED R.R.C. MAY 1 52000 AUSTIN, TEXAS

	from	to	from	to
Log Interval(s):	586	5419		

Company/lease name if different from that above:

On-Shore Final Exp.

An Equal Opportunity Employer (TDD 1-800-735-2989 or TDY 512-463-7284) http://www.rrc.state.tx.us

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

CHARLES R. MATTHEWS,
CHAIRMAN
BARRY WILLIAMSON, COMMISSIONER
CAROLE KEETON RYLANDER,
COMMISSIONER

DAVID E. SCHIECK
DIRECTOR, OIL AND GAS DIVISION
R. A. VARELA
ASSISTANT DIRECTOR

1701 N. CONGRESS | CAPITOL STATION - P.O. BOX 12967 AUSTIN, TEXAS 78711-2967 | (512) 463-7288

May 1, 1998

DIST: 02 BEE API NO. 025-32801
BAUER, CHATO WELL NO. 2
HAMMAN OIL & REFG. CO.
MEDIO CREEK, EAST (4730)
RRCID NO. 163063

Dear Operator:

Our records indicate that you requested confidentiality for the basic electric log on the above property. The period of confidentiality is due to expire at the end of this month.

In accordance with Statewide Rule 16, the basic electric log or a request for an extension of two years additional confidentiality must be submitted by the expiration date. Failure to do so will result in your allowable being cancelled and/or penalty action pursuant to Title 3 of the Texas Natural Resources Code.

Please complete the bottom portion and return this letter with the log or as your request for an extension of confidentiality to the above address to the attention of Central Records. If you have any questions, call the Log Desk at (512) 463-6883.

Sincerely,

R. A. Varela

R. A. VARELA
ASSISTANT DIRECTOR
OIL AND GAS DIVISION

Return to Records Retention

Log Interval(s): from to from to

_____ _____ _____ _____

CHECK AS APPROPRIATE

X Two-Year Extension of Confidentiality Requested

__ Basic Electric Log Attached

Company/Lease name on log if different from that above:

_____.

* General 1st Renewal Notice (On-shore/Offshore)

MAP ID #126

API# 42-025-033027

RRC ONLINE SYSTEM

Log In

Form W-1: Review

Status # 496242 **API #** 025-33027	**OP # 120079 - C & E OPERATING, INC.** Approved ,**Issued:** 06/20/2000 ,**Filed:** Hardcopy	**THOMSON-BARROW CORP. C - Well # 21** 02 - BEE County	**New Drill** Vertical
NEAREST WELL COMMENT: N/A (06/16/2000 12:00:00 AM)			

Status:

Back to Public Query Search Results

General / Location Information

Basic Information:

Filing Purpose	Welbore Profiles	Lease Name	Well #	SWR	Total Depth	Horizontal Wellbore	Stacked Lateral Parent Well DP #
New Drill	Vertical	THOMSON-BARROW CORP. C	21		6500		

Surface Location Information:

API #	Distance from Nearest Town	Direction from Nearest Town	Nearest Town	Surface Location Type
025-33027	11.0 miles	W	WOODSBORO	Land

Survey/Legal Location Information:

Section	Block	Survey	Abstract #	County
		MIGUEL DE LOS SANTOS	64	BEE

Township	League	Labor	Porcion	Share	Tract	Lot

Perpendicular surface location from two nearest designated reference lines:

Perpendiculars	Distance	Direction	Distance	Direction
Survey Lines	6820.8 feet	from the E line and	16363.6 feet	from the (EXT) S line

Fields

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to Nearest Well	Distance to Nearest Lease Line	SWR	Pooled/ Unitized
02	**WILDCAT** **Primary Field**	00004001	6500	THOMSON-BARROW CORP. C	21	Oil or Gas Well	16692.72		1617.1		N

Perpendiculars	Distance	Direction	Distance	Direction
Surface Lease Lines	1617.1 feet	from the N line and	2588.3 feet	from the W line

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to Nearest Well	Distance to Nearest Lease Line	SWR	Pooled/ Unitized
02	**LAURA THOMSON (4850)**	52285166	6500	THOMSON-BARROW CORP. C	21	Gas Well	16692.72		1617.1		N

Perpendiculars	Distance	Direction	Distance	Direction
Surface Lease Lines	1617.1 feet	from the N line and	2588.3 feet	from the W line

Comments

Remark	Date Entered	Entered By
NEAREST WELL COMMENT: N/A	06/16/2000 12:00:00 AM	SYSTEM

Attachments

Attachment Type	File Path	Associated Fields and/or Plats

MAP ID #127

API# 42-025-80286
OIL WELL

0 0 2 0 7 3 0 9 2 7

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-3
Rev 9/1/67

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

1 RRC District: 2

4 RRC Lease or Id. Number: 02170

2 FIELD NAME (as per RRC Records): LAURA THOMSEN 5600 #4 SAND

3 LEASE NAME: LAURA T. BARRON 'B'

5 Well Number: 20

6 OPERATOR: EXXON CORPORATION

10 County: BEE

7 ADDRESS: WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

11 Date Drilling Permit Issued: 11-18-65

8 SURFACE LOCATION: 4200 FEET FROM SE or NW LINE, AND 6125 FEET FROM S or NE LINE

12 Date Drilling Commenced: 12-9-65

9 SECTION, BLOCK, AND SURVEY: M. DE LOS SANTOS (A-64)

13 Date Drilling Completed: 12-29-65

15 Type of Well (Oil, Gas, Dry)*: OIL

16 Type of Completion (Single, Dual, Etc.): SINGLE

17 Total Depth: 5601

14 Date Well Plugged: 11-5-76

18 FORM W-1 (Intention to Drill) Filed in Name of: HUMBLE OIL & REFINING CO.

19 Manner of Placement

PLUG #1	150	SACKS	TOP 4	BOTTOM 5530	TYPE CLASS H
PLUG #2		SACKS	TOP	BOTTOM	TYPE
PLUG #3		SACKS	TOP	BOTTOM	TYPE
PLUG #4		SACKS	TOP	BOTTOM	TYPE

20 Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission: YES [ ] NO [X]

21. How was Mud applied? —

22 Mud Weight: — LBS/GAL

23 Depth of Deepest Fresh Water: 1600 FEET

24 Have all Abandoned Wells on this Lease been Plugged according to RRC Rules? YES [ ] NO [ ]

25. If NO, Explain: 2 7/8" CASING PLUGGED WITH CEMENT FROM 4' TO 553c'

26 Name and Address of Party Plugging Well: SPARTAN WELL SERVICE, INC., BOX 1496, CORPUS CHRISTI, TEXAS 78403

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL FEET	PUT IN WELL INCHES	LEFT IN WELL FEET	LEFT IN WELL INCHES
7 3/8"	533.80		529.50	
2 7/8"	5574.93		5570.93	

7 5/8" & 2 7/8" CASING CEMENTED TO SURFACE.

28 Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

BLAIR - FREELAND, BOX 2403 CORPUS CHRISTI, TEXAS 78403
CARRL OIL COMPANY, 1700 GUARANTY BK. PLAZA, CORPUS CHRISTI, TEXAS 78401
MITCHELL ENERGY CORPORATION, 3700 ONE SHELL PLAZA, HOUSTON, TEXAS 77002

29 Was Notice given before Plugging to each of the above and RRC District Office? YES [X] NO [ ] RRC

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Grady Coyle — GRADY COYLE — REPRESENTATIVE OF COMPANY

PRORATION SPECIALIST — TITLE

11-30-76 — DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

RECEIVED
R.R.C. OF TEXAS
DEC - 2 1976
O & G
SAN ANTONIO, TEXAS

*All Dry Holes, Fill in Reverse Side.

30. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached ☐ Log released to _____ Date _____

Type Logs:

☐ Driller's ☐ Electric ☐ Radioactivity ☐ Acoustical/Sonic

REMARKS 7 5/8" & 2 7/8" CASING CUT OFF 4' BELOW GROUND & CAPPED.

000073 0928

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15
(Rev 11-1-69)

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) 5600 #4 SAND	*3. RRC District
*2. Operator [illegible] CORPORATION	*4. County BEE
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) LAURA [illegible] B 02407	*6. Well Number -20
*7. Location (Section, Block, and Survey) M. DE LOS SANTOS (A-64)	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date						
*9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
*10. Size of Casing (inches O.D.)						
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.)						
(b) In Second Slurry						
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Sacks of Cement Used						
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry						
(b) In Second Slurry						
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)						
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA:	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
19. Cementing Date	11-5-76					
*20. Size of Hole or Pipe in which Plug Placed (inches)	2 7/8					
*21. Depth to Bottom of Tubing or Drill Pipe (ft.)	5530'					
22. Sacks of Cement Used (each plug)	150					
23. Slurry Volume Pumped (cu. ft.)	165.0					
24. Calculated Top of Plug (ft.)	[illegible]					
*25. Measured Top of Plug (if tagged) (ft.)						

RECEIVED
R.R.C. OF TEXAS
DEC - 2 1976
O & G
SAN ANTONIO, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

26. Remarks:	*27. Remarks:
Plugs OK'd by RRC - Dist. #2.	DEC - 3 1976

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

Rodney Johnson

Signature of Cementer or Authorized Representative

Rodney Johnson Agent

Name of Person and Title (type or print)

Spartan Well Service, Inc.

Cementing Company

PO Box 1496

Street Address or P.O. Box

Corpus Christi, Tex. 78403

City, State Zip Code

Telephone 512 883-1838
Area Code

November 8, 1976

Date

***OPERATOR**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Grady Coyle

*Signature of Operator or Authorized Representative

GRADY COYLE PRORATION SPECIALIST

*Name of Person and Title (type or print)

EXXON CORPORATION

*Operator

*Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

*City, State Zip Code

*Telephone 512 884-4571
Area Code

11-30-76

*Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
   (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
   (2) Each copy of Form W-3;
   (3) Each copy of Form W-4 if a multiple parallel casing completion.
   B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
   C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
   A. Depth to protect fresh water determined by:
   (1) Field Rule
   (2) Texas Water Development Board, if no Field Rule
   B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
   A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
   B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
   A. Cement short surface casing from the shoe to the surface.
   B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
   (1) the surface; or
   (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
   A. Cement to a point at least 600 feet above the casing shoe.
   B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
   A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
   B. The minimum amount of cement normally used in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
   C. A 10 foot cement plug is required to be placed in the top of the well.

APPENDIX E

Waste Stream Analysis Report

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Uranium Energy Corp
Project ID: La Palagana
Sample ID: WDW-419 INJECTION FL

ACZ Sample ID: ***L92547-02***
Date Sampled: *12/29/11 00:00*
Date Received: *12/30/11*
Sample Matrix: *Ground Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.003	0.01	01/17/12 1:11	pmc
Cadmium, dissolved	M200.8 ICP-MS	0.0007	B		mg/L	0.0005	0.003	01/17/12 1:11	pmc
Calcium, dissolved	M200.7 ICP	587			mg/L	1	5	01/09/12 21:49	jjc
Iron, dissolved	M200.7 ICP	0.2	B		mg/L	0.1	0.3	01/09/12 21:49	jjc
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.003	01/17/12 1:11	pmc
Magnesium, dissolved	M200.7 ICP	123			mg/L	1	5	01/09/12 21:49	jjc
Manganese, dissolved	M200.7 ICP	2.40		*	mg/L	0.03	0.1	01/09/12 21:49	jjc
Mercury, dissolved	M245.1 CVAA		U		mg/L	0.0002	0.001	01/17/12 19:38	erf
Molybdenum, dissolved	M200.7 ICP	1.39			mg/L	0.05	0.3	01/09/12 21:49	jjc
Potassium, dissolved	M200.7 ICP	33			mg/L	2	8	01/09/12 21:49	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0493			mg/L	0.0005	0.001	01/17/12 1:11	pmc
Silica, dissolved	M200.7 ICP	31			mg/L	2	10	01/09/12 21:49	jjc
Sodium, dissolved	M200.7 ICP	830			mg/L	2	8	01/09/12 21:49	jjc
Uranium, dissolved	M200.8 ICP-MS	6.020			mg/L	0.005	0.03	01/18/12 1:27	pmc

** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Uranium Energy Corp
Project ID: La Palagana
Sample ID: WDW-419 INJECTION FL

ACZ Sample ID: ***L92547-02***
Date Sampled: *12/29/11 00:00*
Date Received: *12/30/11*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		599			mg/L	2	20	01/04/12 0:00	abm
Carbonate as CaCO3			U		mg/L	2	20	01/04/12 0:00	abm
Hydroxide as CaCO3			U		mg/L	2	20	01/04/12 0:00	abm
Total Alkalinity		599			mg/L	2	20	01/04/12 0:00	abm
Cation-Anion Balance	Calculation								
Cation-Anion Balance		2.7			%			01/24/12 0:00	calc
Sum of Anions		73.0			meq/L	0.1	0.5	01/24/12 0:00	calc
Sum of Cations		77.0			meq/L	0.1	0.5	01/24/12 0:00	calc
Chloride	SM4500Cl-E	680		*	mg/L	10	50	01/09/12 15:54	tcd
Conductivity @25C	SM2510B	5850			umhos/cm	1	10	01/04/12 20:41	abm
Fluoride	SM4500F-C	0.5	B	*	mg/L	0.1	0.5	01/04/12 18:14	abm
Lab Filtration (0.45um) & Acidification	M200.7/200.8							01/04/12 16:24	mfm
Lab Filtration (0.45um) & Acidification	M200.7/200.8 (0.45um filtration)							01/04/12 10:00	mtb
Lab Filtration (glass fiber filter)	SOPWC050							12/30/11 15:30	abm
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.02	B		mg/L	0.02	0.1	01/24/12 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.02	B		mg/L	0.02	0.1	12/30/11 22:26	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	12/30/11 22:26	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate	0.07	B	*	mg/L	0.05	0.5	01/16/12 13:35	mpb
pH (lab)	SM4500H+ B								
pH		7.9	H		units	0.1	0.1	01/04/12 0:00	abm
pH measured at		20.0			C	0.1	0.1	01/04/12 0:00	abm
Residue, Filterable (TDS) @180C	SM2540C	4950		*	mg/L	10	20	12/30/11 15:27	abm
Sulfate	D516-02 - Turbidimetric	2000		*	mg/L	100	500	01/12/12 14:54	lhb
TDS (calculated)	Calculation	4650			mg/L	10	50	01/24/12 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.06						01/24/12 0:00	calc

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RadioChemistry Analytical Results

Uranium Energy Corp
Project ID: La Palagana
Sample ID: WDW-419 INJECTION FL
Locator:

ACZ Sample ID: ***L92547-02***
Date Sampled: *12/29/11 0:00*
Date Received: *12/30/11*
Sample Matrix: *Ground Water*

Radium 226, dissolved
M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	01/19/12 13:57		220	1.7	0.17	pCi/L	*	zsh/mtb

** Please refer to Qualifier Reports for details.*