



Administrative Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
 - English
 - Alternative Language (Spanish)
2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
 - English
 - Alternative Language (Spanish)
3. Application materials



Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
 - Inglés
 - Idioma alternativo (español)
2. Primer aviso (NORI, por sus siglas en inglés)
 - Inglés
 - Idioma alternativo (español)
3. Solicitud original

English Plain Language Summary

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

Good and West Acquisitions, LLC, (CN606350155), 508 Powell St, Austin TX 78703, and SWOAKS290 Holding LLC, (CN606342855), 421 Country Club Rd, Fairview, Texas 75069, propose to operate SW Oaks Wastewater Treatment Facility, a membrane bioreactor (MBR) system consisting of several process trains. The facility will be located approximately 0.65 miles northwest from the intersection of Hwy 290 and Rim Rock Trail near the city of Dripping Springs, Travis County, Texas 78737.

This application is for a new permit to dispose a daily average flow of not to exceed 61,280 gallons per day of treated domestic wastewater via subsurface area drip dispersal system within an area of 14.07 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅) and total suspended solids (TSS). Domestic wastewater will be treated by an MBR, and the system will have a primary screen, equalization tank, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize UV or chlorine disinfection. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.



Spanish Plain Language Summary

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo exige el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es federal. representaciones ejecutables de la solicitud de permiso.

Good and West Acquisitions, LLC, (CN606350155), 508 Powell St, Austin TX 78703, y SWOAKS290 Holding LLC 421 (CN606342855), Country Club Rd, Fairview, Texas 75069, proponen operar la instalación de tratamiento de aguas residuales SW Oaks, un sistema de biorreactor de membrana (MBR) que consta de varios trenes de proceso. La instalación estará ubicada aproximadamente a 0,65 millas al noroeste de la intersección de la autopista 290 y Rim Rock Trail cerca de la ciudad de Dripping Springs, condado de Travis, Texas 78737.

Esta solicitud es para un nuevo permiso para eliminar un flujo promedio diario que no exceda los 61,280 galones por día de aguas residuales domésticas tratadas a través de un sistema de dispersión por goteo en el subsuelo dentro de un área de 14.07 acres. Este permiso no autorizará una descarga de contaminantes al agua del estado.

Se espera que la aplicación al suelo de las aguas residuales domésticas de la instalación contenga la demanda bioquímica de oxígeno carbonoso (CBOD5) y los sólidos suspendidos totales (TSS) de cinco días. Las aguas residuales domésticas serán tratadas mediante un MBR y el sistema tendrá una pantalla primaria, un tanque de ecualización, múltiples trenes de proceso que constan de zonas anóxicas, de aireación, de membrana y tanques de retención de lodos. La instalación utilizará desinfección con UV o cloro. Además, la instalación incluye un almacenamiento temporal que equivale al menos a tres días del caudal medio diario.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT

PROPOSED PERMIT NO. WQ0016708001

APPLICATION. Good and West Acquisitions, LLC and SWOaks290 Holding LLC, 508 Powell Street, Austin, Texas 78703, have applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016708001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 61,280 gallons per day via subsurface area drip dispersal system on 14.07 acres of land. The domestic wastewater treatment facility and disposal area will be located approximately 0.65 miles northwest from the intersection of U.S. Highway 290 and Rim Rock Trail, near the city of Dripping Springs, in Travis County, Texas 78737. TCEQ received this application on January 16, 2025. The permit application will be available for viewing and copying at Hampton Branch at Oak Hill - Austin Public Library, Circulation Desk, 5152 Convict Hill Road, Austin, in Travis County, Texas and Dripping Springs Community Library, Circulation Desk, 501 Sportsplex Drive, Dripping Springs, in Hays County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.976666,30.216944&level=18>

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>.

El aviso de idioma alternativo en español está disponible en

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>.

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a

public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing.** A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at <https://www14.tceq.texas.gov/epic/eComment/>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Good and West Acquisitions, LLC and SWOaks290 Holding LLC at the address stated above or by calling Ms. Janela Revilla, Project Engineer, JA Wastewater, LLC, at (737) 864-3476.

Issuance Date: February 10, 2025

Comisión de Calidad Ambiental del Estado de Texas



AVISO DE RECIBO DE LA SOLICITUD E INTENCION DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA

PERMISO PROPUESTO NO. WQ0016708001

SOLICITUD. Good and West Acquisitions, LLC and SWOaks290 Holding LLC, 508 Powell Street, Austin, Texas 78703, han solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No. WQ0016708001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 61,280 galones por día por medio de sistema de dispersión por goteo en el subsuelo de 14,07 acres de terreno. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados enaproximadamente a 0.65 millas al noroeste de la intersección de la carretera estadounidense 290 y Rim Rock Trail, cerca de la ciudad de Dripping Springs, en el condado de Travis, Texas 78737. La TCEQ recibió esta solicitud el día 16 de Enero de 2025. La solicitud de permiso estará disponible para ver y copiar en Hampton Branch en Oak Hill - Biblioteca Pública de Austin, Mostrador de Circulación, 5152 Convict Hill Road, Austin, en el Condado de Travis, Texas y Biblioteca Comunitaria de Dripping Springs, Mostrador de Circulación, 501 Sportsplex Drive, Dripping Springs, en el Condado de Hays, Texas, antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>.

Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.976666,30.216944&level=18>

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar **comentarios públicos o pedir una reunión pública sobre esta solicitud.** El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud.** Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso. Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los

Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html.

Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del Good and West Acquisitions, LLC and SWOAKS290 Holding LLC a la dirección indicada arriba o llamando a Janela Revilla al, JA Wastewater, LLC, (737) 864-3476.

Fecha de emisión 10 de febrero de 2025

Ms. Janela Revilla, E.I.T.
Page 1
January 29, 2025
Permit No. WQ0016708001

Brooke T. Paup, Chairwoman
Bobby Janecka, Commissioner
Catarina R. Gonzales, Commissioner
Kelly Keel, Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 29, 2025

Ms. Janela Revilla, E.I.T.
Project Engineer
JA Wastewater, LLC
3410 Far West Blvd, Ste 170
Austin, Texas 78731

RE: Application for Proposed] Permit No.: WQ0016708001
Applicant Name: Good and West **Acquisitions**, LLC (CN606342830) and
SWOAKS290 Holding, LLC (CN606342855)
Site Name: SW Oaks WWTF (RN112119334)
Type of Application: New

VIA EMAIL

Dear Ms. Revilla:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

1. Section II, item 6, 7 and 8 on page 1 of the Core Data Form (CDF) for the applicant Good and West Acquisitions, LLC. Thank you for addressing these items. However, the name Good and West Acquisitions, LLC is not registered under SoS for #0803258844 and for Comptroller office not 32070012136. The SoS 0803258844 and for Comptroller 32070012136 is for Good and West, LLC (without the 'Acquisitions'). Please confirm which name you want us to use as applicant in the permit and update the CDF.

Please use "Good and West Acquisitions, LLC"

SOS File No. 0803789581

Texas Tax Payer No. 32076376352

Please see updated Core Data Form page 1 for Main Applicant.

2. Section II, item 15 on page 1 of the Core Data Forms (CDF): Two different mailing addresses were provided for the applicant and co-applicant. Only one address can be used on the permit and for permit correspondence. Please verify which address, the applicant or the co-applicant, will be used on the permit and for permit correspondence from the TCEQ.

Please use "508 Powell St, Austin, TX 78703".

3. Section 14, Signature Page, on Page 13 of the Administrative Report for both applicant and co-applicant: Texas Commission of Environmental Quality (TCEQ) rules require the application be signed by a principal executive officer (e.g., Vice President, Board of Directors, etc.). We were

January 29, 2025

Permit No. WQ0016708001

unable to confirm whether Ms. Elizabeth Good (Partner) and Mr. Piruthiviraj Loganathan (Manager) are authorized to sign. Please confirm Ms. Good and Mr. Loganathan meets the signatory requirements under 30 TAC 30 and are authorized to sign the application. If not, please submit a notarized signature page signed by an authorized agent and also update section 3, item A on page 3 of the administrative report accordingly.

Yes, both are authorized agents of their respective companies.
Elizabeth Good is a Managing Member of Good and West Acquisitions, LLC.
Piruthiviraj Loganathan is a Managing Member of SWOAKS290 Holding, LLC
Please see updated Admin Report, Section 3, Items A and B.

4. Section 1 item C, landowners' information, on page 13 of the administrative report 1.0: Thank you for responding to this item. Please email the mailing labels in (Avery 5160) in a Microsoft word format the name and the address only.

Please see attached Word doc for mailing labels.

5. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC, (**Pending confirmation**) 508 Powell Street, Austin, Texas 78703, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016708001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 61,280 gallons per day via subsurface area drip dispersal system on 14.07 acres of land. The domestic wastewater treatment facility and disposal area will be located approximately 0.65 miles northwest from the intersection of U.S. Highway 290 and Rim Rock Trail, near the city of Dripping Springs, in Travis County, Texas 78737. TCEQ received this application on January 16, 2025. The permit application will be available for viewing and copying at Hampton Branch at Oak Hill - Austin Public Library, Circulation Desk, 5152 Convict Hill Road, Austin, Texas, prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.976666,30.216944&level=18>

Further information may also be obtained from Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC at the address stated above or by calling Ms. Janela Revilla, E.I.T., Project Engineer, at (737) 864-3476.

This is correct.

6. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Please see attached Spanish translation.



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.) | | |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.) | | |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form) | | <input type="checkbox"/> 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 | | RN |

SECTION II: Customer Information

| | | | | | | | |
|---|---------------|--|--|---|--|-------|----------------|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | 12/1/2024 | | | |
| <input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership | | | | | | | |
| <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | | | | |
| <i>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).</i> | | | | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | <i>If new Customer, enter previous Customer below:</i> | | | | |
| Good and West Acquisitions, LLC | | | Good and West Acquisitions, LLC | | | | |
| 7. TX SOS/CPA Filing Number | | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID (9 digits) | 10. DUNS Number (if applicable) | | |
| 0803789581 | | 32076376352 | | | | | |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | | <input type="checkbox"/> Individual | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited | | |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other | | <input type="checkbox"/> Sole Proprietorship | | <input checked="" type="checkbox"/> Other: LLC | | | |
| 12. Number of Employees | | | | 13. Independently Owned and Operated? | | | |
| <input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher | | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following | | | | | | | |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: | | | | | | | |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant | | | | | | | |
| 15. Mailing Address: | 508 Powell St | | | | | | |
| | City | Austin | State | TX | ZIP | 78703 | ZIP + 4 |
| 16. Country Mailing Information (if outside USA) | | | | 17. E-Mail Address (if applicable) | | | |
| | | | | good@goodandwest.com | | | |

c. Check the box next to the appropriate permit type.

- ☐ TPDES Permit
☐ TLAP
☐ TPDES Permit with TLAP component
☒ Subsurface Area Drip Dispersal System (SADDS)

d. Check the box next to the appropriate application type

- ☒ New
☐ Major Amendment with Renewal
☐ Major Amendment without Renewal
☐ Renewal without changes
☐ Minor Amendment with Renewal
☐ Minor Amendment without Renewal
☐ Minor Modification of permit

e. For amendments or modifications, describe the proposed changes:

f. For existing permits:

Permit Number: WQ00

EPA I.D. (TPDES only): TX

Expiration Date:

Section 3. Facility Owner (Applicant) and Co-Applcant Information (Instructions Page 26)

A. The owner of the facility must apply for the permit.

What is the Legal Name of the entity (applicant) applying for this permit?

Good and West Acquisitions, LLC

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)?

You may search for your CN on the TCEQ website at <http://www15.tceq.texas.gov/crpub/>

CN:

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix: Ms.

Last Name, First Name: Good, Elizabeth

Title: Managing Member

Credential:

B. Co-applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

SWOAKS290 Holding, LLC

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)?
You may search for your CN on the TCEQ website at: <http://www15.tceq.texas.gov/crpub/>

CN:

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix: Mr.

Last Name, First Name: Loganathan, Piruthiviraj

Title: Managing Member

Credential:

Provide a brief description of the need for a co-permittee: Landowner is a co-applicant

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. Core Data Form

Section 4. Application Contact Information (Instructions Page 27)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix: Ms.

Last Name, First Name: Revilla, Janela

Title: Project Engineer

Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476

E-mail Address: jrevilla@jawastewater.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Ms.

Last Name, First Name: Miller, Jamie

Title: President

Credential: P.E.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (970) 443-9096

E-mail Address: jmiller@jawastewater.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

Provide the names and contact information for two individuals that can be contacted throughout the permit term.

A. Prefix: Ms.

Last Name, First Name: Revilla, Janela

Title: Project Engineer

Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476

E-mail Address: jrevilla@jawastewater.com

Comisión de Calidad Ambiental del Estado de Texas



AVISO DE RECIBO DE LA SOLICITUD E INTENCION DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA

PERMISO PROPUESTO NO. WQ0016708001

SOLICITUD. Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC, 508 Powell Street, Austin, Texas 78703, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No.WQ0016708001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 61,280 galones por día por medio de sistema de dispersión por goteo en el subsuelo de 14,07 acres de terreno. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados enaproximadamente a 0,65 millas al noroeste de la intersección de la carretera estadounidense 290 y Rim Rock Trail, cerca de la ciudad de Dripping Springs, en el condado de Travis, Texas 78737. La TCEQ recibió esta solicitud el día 16 de Enero de 2025. La solicitud para el permiso está disponible para leer y copiar en *Hampton Branch at Oak Hill - Austin Public Library, mostrador de circulación, 5152 Convict Hill Road, Austin, Texas, antes de la fecha de publicación de este aviso en el periódico.* La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>.

Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.976666,30.216944&level=18>

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud.** El aviso dará la fecha límite para someter comentarios públicos.

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar

comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya

presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC a la dirección indicada arriba o llamando a Janela Revilla al (737) 864-3476.

Fecha de emisión _____ *[Date notice issued]*

PULERK HOLDINGS LLC
5612 MEDICINE CREEK DR
AUSTIN TX 78735

ISELL JAMES HORACE JR
11008 SOUTH WEST OAKS
AUSTIN TX 78737

PARK D'ANNE DUPREE &
11011 SOUTHWEST OAKS
AUSTIN TX 78737

BIRKEY DAVID WARREN &
11015 SOUTHWEST OAKS
AUSTIN TX 78737

JOHNSON NORBERT
6638 QUEENSCLUB DR
HOUSTON TX 77069

MINJARES JUAN & GENOVEVA G
2302 E 10TH STREET UNT 1
AUSTIN TX 78702

ROACH JOHN & SHERI ROACH
11027 SOUTH WEST OAKS
AUSTIN TX 78737

BARRIOS JOSE L & OLGA
11021 SW OAKS
AUSTIN TX 78737

STANFORD JOHN CHRISTOPHER &
11105 SW OAKS
AUSTIN TX 78737

ZIBELIN JOHN J & MY KHON HA
11109 SW OAKS
AUSTIN TX 78737

ARREDONDO ADAN & MISTY ARREDONDO
11120 SHADY HOLLOW DR
AUSTIN TX 78748

LEDESMA ALBERT & LYDIA G
11205 SW OAKS
AUSTIN TX 78737

11209 SW OAKS LLC
8500 SHOAL CREEK BLVD BLDG 4
AUSTIN TX 78757

HULOT-SAGE CHRISTIAN
11301 SOUTH WEST OAKS
AUSTIN TX 78737

LOCKE VALERIE JO
11305 SOUTH WEST OAKS
AUSTIN TX 78737

BOGARD MICHAEL KELLY
11401 SW OAKS
AUSTIN TX 78737

VAN WINKLE KATHRYN
11409 SOUTHWEST OAKS
AUSTIN TX 78737

WHISTLER TERESA L
11501 SW OAKS
AUSTIN TX 78737

ANNATON PROPERTIES LLC
24 REESE DR
SUNSET VALLEY TX 78745

BOHM ARNO & DARLENE WILEY BOHM
PO BOX 90595
AUSTIN TX 78709

CROUCH JEFFREY & SHARON J
11700 OAK BRANCH DR
AUSTIN TX 78737

HAYS PERSON
AUSTIN TX

NIX CRAIG M & LINDA M
208 DIAMOND WOOD CT
DRIFTWOOD TX 78619

BROWN DANIEL L & TERRI C
11600 OAK BRANCH DR
AUSTIN TX 78737

NOVAK ROBERT J
11500 OAK BRANCH DR AUSTIN TX 78737
AUSTIN TX 78737

SIEVERS TRAVIS W & DANETTE
11412 OAK BRANCH DR
AUSTIN TX 78737

SYPTAK DANIEL & VANESSA
11408 OAK BRANCH DR
AUSTIN TX 78737

MARCHAND JOHN R & REANIE K
11404 OAK BRANCH DR
AUSTIN TX 78737

WHEAT WILLIAM M & PENNY C
11400 OAK BRANCH DR
AUSTIN TX 78737

BENDIK NATHAN & BETH M
11304 OAK BRANCH DR
AUSTIN TX 78737

FOWLER KEVIN & SHANA
11300 OAK BRANCH DR
AUSTIN TX 78737

MCCOWAN DORIS LEE
11210 OAK BRANCH DR
AUSTIN TX 78737

CLARK PATTI R
PO BOX 1306
DRIPPING SPRINGS TX 78620

ALEXANDER ALLIE
8917 SAM CARTER DR
AUSTIN TX 78737

CULVER DAVID C
12000 W HIGHWAY 290 STE D
AUSTIN TX 78737

KOETTING MIKE
12000 W HIGHWAY 290
AUSTIN TX 78737

SILLS PARTNERS LTD
8 COACH HOUSE RD
AUSTIN TX 78737

MCCOY INVESTMENT LTD #69
PO BOX 1028
SAN MARCOS TX 78667

ARTH RIMROCK LLC
5996 MATTERHORN DR
FRISCO TX 75035

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms.

Last Name, First Name: Revilla, Janela

Title: Project Engineer

Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476

E-mail Address: jrevilla@jawastewater.com

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Public building name: Hampton Branch at Oak Hill, Austin Public Library

Location within the building: Circulation Desk

Physical Address of Building: 5152 Convict Hill Rd

City: Austin

County: Travis

Contact (Last Name, First Name):

Phone No.: (512) 974-9900 Ext.:

2nd Library: Dripping Springs
Community Library, Circulation Desk
501 Sportsplex Dr, Dripping Springs,
TX 78620
County: Hays County
Contact No. (512) 858-7825

E. Bilingual Notice Requirements

This information is required for **new, major amendment, minor amendment or minor modification, and renewal** applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

☒ Yes

☐ No

If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

☒ Yes

☐ No

**SW Oaks
Wastewater Treatment Facility**

TCEQ Application for New TLAP Permit

**Submitted to
Texas Commission on Environmental Quality**

January 2025





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Good and West Acquisitions, LLC

PERMIT NUMBER (If new, leave blank): WQ00

Indicate if each of the following items is included in your application.

| | Y | N | | Y | N |
|------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| Administrative Report 1.0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Original USGS Map | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Administrative Report 1.1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Affected Landowners Map | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| SPIF | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Landowner Disk or Labels | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Core Data Form | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Buffer Zone Map | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Public Involvement Plan Form | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Flow Diagram | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Technical Report 1.0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Site Drawing | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Technical Report 1.1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Original Photographs | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Worksheet 2.0 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Design Calculations | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Worksheet 2.1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Solids Management Plan | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Worksheet 3.0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Water Balance | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Worksheet 3.1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 3.2 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 3.3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | |
| Worksheet 4.0 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 5.0 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 6.0 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 7.0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | |

For TCEQ Use Only

Segment Number _____ County _____

Expiration Date _____ Region _____

Permit Number _____



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION
ADMINISTRATIVE REPORT 1.0**

For any questions about this form, please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 26)

Indicate the amount submitted for the application fee (check only one).

| Flow | New/Major Amendment | Renewal |
|---------------------|--|-------------------------------------|
| <0.05 MGD | \$350.00 <input type="checkbox"/> | \$315.00 <input type="checkbox"/> |
| ≥0.05 but <0.10 MGD | \$550.00 <input checked="" type="checkbox"/> | \$515.00 <input type="checkbox"/> |
| ≥0.10 but <0.25 MGD | \$850.00 <input type="checkbox"/> | \$815.00 <input type="checkbox"/> |
| ≥0.25 but <0.50 MGD | \$1,250.00 <input type="checkbox"/> | \$1,215.00 <input type="checkbox"/> |
| ≥0.50 but <1.0 MGD | \$1,650.00 <input type="checkbox"/> | \$1,615.00 <input type="checkbox"/> |
| ≥1.0 MGD | \$2,050.00 <input type="checkbox"/> | \$2,015.00 <input type="checkbox"/> |

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number:

Check/Money Order Amount:

Name Printed on Check:

EPAY Voucher Number:

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 26)

a. Check the box next to the appropriate authorization type.

- ☐ Publicly-Owned Domestic Wastewater
- ☒ Privately-Owned Domestic Wastewater
- ☐ Conventional Wastewater Treatment

b. Check the box next to the appropriate facility status.

- ☐ Active ☒ Inactive

TCEQ ePay Voucher Receipt

Transaction Information

| | |
|------------------------|------------------------------------|
| Voucher Number: | 740842 |
| Trace Number: | 582EA000643615 |
| Date: | 01/13/2025 09:34 AM |
| Payment Method: | CC - Authorization 0000284001 |
| Voucher Amount: | \$50.00 |
| Fee Type: | 30 TAC 305.53B WQ NOTIFICATION FEE |
| ePay Actor: | ELIZABETH GOOD |

Payment Contact Information

| | |
|-----------------|-------------------------------------|
| Name: | ELIZABETH GOOD |
| Company: | GOOD AND WEST RESIDENTIAL |
| Address: | 508 POWELL STREET, AUSTIN, TX 78703 |
| Phone: | 512-983-1337 |

TCEQ ePay Voucher Receipt

Transaction Information

| | |
|------------------------|--|
| Voucher Number: | 740841 |
| Trace Number: | 582EA000643615 |
| Date: | 01/13/2025 09:34 AM |
| Payment Method: | CC - Authorization 0000284001 |
| Voucher Amount: | \$500.00 |
| Fee Type: | WW PERMIT - FACILITY WITH FLOW >= .05 & < .10 MGD - NEW AND MAJOR AMENDMENTS |
| ePay Actor: | ELIZABETH GOOD |

Payment Contact Information

| | |
|-----------------|-------------------------------------|
| Name: | ELIZABETH GOOD |
| Company: | GOOD AND WEST RESIDENTIAL |
| Address: | 508 POWELL STREET, AUSTIN, TX 78703 |
| Phone: | 512-983-1337 |

Site Information

| | |
|-----------------------|--|
| Site Name: | SW OAKS WWTF |
| Site Location: | 0.65 MILES NORTHWEST FROM THE INTERSECTION OF HWY 290 AND RIM ROCK TRAIL |

Customer Information

| | |
|--------------------------|-------------------------------------|
| Customer Address: | 508 POWELL STREET, AUSTIN, TX 78703 |
|--------------------------|-------------------------------------|

c. Check the box next to the appropriate permit type.

- ☐ TPDES Permit
☐ TLAP
☐ TPDES Permit with TLAP component
☒ Subsurface Area Drip Dispersal System (SADDS)

d. Check the box next to the appropriate application type

- ☒ New
☐ Major Amendment with Renewal
☐ Major Amendment without Renewal
☐ Renewal without changes
☐ Minor Amendment with Renewal
☐ Minor Amendment without Renewal
☐ Minor Modification of permit

e. For amendments or modifications, describe the proposed changes:

f. For existing permits:

Permit Number: WQ00

EPA I.D. (TPDES only): TX

Expiration Date:

Section 3. Facility Owner (Applicant) and Co-Applcant Information (Instructions Page 26)

A. The owner of the facility must apply for the permit.

What is the Legal Name of the entity (applicant) applying for this permit?

Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)?

You may search for your CN on the TCEQ website at <http://www15.tceq.texas.gov/crpub/>

CN:

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix: Ms.

Last Name, First Name: Good, Elizabeth

Title: Partner

Credential:

B. Co-applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

SWOAKS290 Holding, LLC

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)?
You may search for your CN on the TCEQ website at: <http://www15.tceq.texas.gov/crpub/>

CN:

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix: Mr.

Last Name, First Name: Loganathan, Piruthiviraj

Title: Manager

Credential:

Provide a brief description of the need for a co-permittee: Landowner is a co-applicant

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. Core Data Form

Section 4. Application Contact Information (Instructions Page 27)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix: Ms.

Last Name, First Name: Revilla, Janela

Title: Project Engineer

Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476

E-mail Address: jrevilla@jawastewater.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Ms.

Last Name, First Name: Miller, Jamie

Title: President

Credential: P.E.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (970) 443-9096

E-mail Address: jmiller@jawastewater.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

Provide the names and contact information for two individuals that can be contacted throughout the permit term.

A. Prefix: Ms.

Last Name, First Name: Revilla, Janela

Title: Project Engineer

Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476

E-mail Address: jrevilla@jawastewater.com

B. Prefix: Ms. Last Name, First Name: Miller, Jamie
Title: President Credential: P.E.
Organization Name: JA Wastewater, LLC
Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731
Phone No.: (970) 443-9096 E-mail Address: jmiller@jawastewater.com

Section 6. Billing Contact Information (Instructions Page 27)

The permittee is responsible for paying the annual fee. The annual fee will be assessed to permits ***in effect on September 1 of each year***. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (using form TCEQ-20029).

Prefix: Ms. Last Name, First Name: Good, Elizabeth
Title: Partner Credential:
Organization Name: Good and West Acquisitions, LLC
Mailing Address: 508 Powell St City, State, Zip Code: Austin TX 78703
Phone No.: (512) 983-1337 E-mail Address: good@goodandwest.com

Section 7. DMR/MER Contact Information (Instructions Page 27)

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (DMR) (EPA 3320-1) or maintain Monthly Effluent Reports (MER).

Prefix: Ms. Last Name, First Name: Good, Elizabeth
Title: Partner Credential:
Organization Name: Good and West Acquisitions, LLC
Mailing Address: 508 Powell St City, State, Zip Code: Austin, TX 78703
Phone No.: (512) 983-1337 E-mail Address: good@goodandwest.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Revilla, Janela
Title: Project Engineer Credential: E.I.T.
Organization Name: JA Wastewater, LLC
Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731
Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.com

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms.

Last Name, First Name: Revilla, Janela

Title: Project Engineer

Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476

E-mail Address: jrevilla@jawastewater.com

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Public building name: Hampton Branch at Oak Hill, Austin Public Library

Location within the building: Circulation Desk

Physical Address of Building: 5152 Convict Hill Rd

City: Austin

County: Travis

Contact (Last Name, First Name):

Phone No.: (512) 974-9900 Ext.:

E. Bilingual Notice Requirements

This information **is required** for **new, major amendment, minor amendment or minor modification, and renewal** applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

☒ Yes

☐ No

If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

☒ Yes

☐ No

3. Do the students at these schools attend a bilingual education program at another location?

☐ Yes ☒ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?

☐ Yes ☒ No

5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

Attachment: Plain Language Summary

G. Public Involvement Plan Form

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a **new permit or major amendment to a permit** and include as an attachment.

Attachment: Public Involvement Plan Form

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 29)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN**

Search the TCEQ's Central Registry at <http://www15.tceq.texas.gov/crpub/> to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

SW Oaks WWTF

C. Owner of treatment facility: Good and West Acquisitions, LLC

Ownership of Facility: ☐ Public ☒ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

Prefix: Mr.

Last Name, First Name: Loganathan, Piruthiviraj

Title: Manager

Credential:

Organization Name: SWOAKS290 Holding, LLC

Mailing Address: 421 Country Club Rd

City, State, Zip Code: Fairview TX 75069

Phone No.: _

E-mail Address: prithivi@ustamil.com

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment:

E. Owner of effluent disposal site:

Prefix: Ms.

Last Name, First Name: Good, Elizabeth

Title: Partner

Credential:

Organization Name: Good and West Acquisitions, LLC

Mailing Address: 508 Powell St

City, State, Zip Code: Austin TX 78703

Phone No.: (512) 983-1337

E-mail Address: good@goodandwest.com

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment:

F. Owner sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant):

Prefix: _

Last Name, First Name:

Title: _

Credential:

Organization Name:

Mailing Address: _

City, State, Zip Code:

Phone No.: _

E-mail Address:

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment:

Section 10. TPDES Discharge Information (Instructions Page 31)

A. Is the wastewater treatment facility location in the existing permit accurate?

☐

Yes

☐

No

If **no**, or a new permit application, please give an accurate description:

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐

Yes

☐

No

If **no**, or a new or amendment permit application, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

City nearest the outfall(s):

County in which the outfalls(s) is/are located:

C. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐

Yes

☐

No

If **yes**, indicate by a check mark if:

- ☐ Authorization granted ☐ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment:

- D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge:

Section 11. TLAP Disposal Information (Instructions Page 32)

- A. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☒ Yes ☐ No

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

The disposal area is located approximately 0.77 miles northwest from the intersection of Hwy 290 and Rim Rock Trail near the city of Dripping Springs, Travis County, Texas 78737.

- B. City nearest the disposal site: Dripping Springs

- C. County in which the disposal site is located: Travis

- D. For TLAPs, describe the routing of effluent from the treatment facility to the disposal site:

Treated effluent will be routed to the effluent disposal site via a pipe.

- E. For TLAPs, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Bear Creek

Section 12. Miscellaneous Information (Instructions Page 32)

- A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

- B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

C. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number:

Amount past due:

Section 13. Attachments (Instructions Page 33)

Indicate which attachments are included with the Administrative Report. Check all that apply:

☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☒ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary
- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify:

Section 14. Signature Page (Instructions Page 34)

If co-applicants are necessary, each entity must submit an original, separate signature page.

Permit Number:

Applicant: Good and West Acquisitions, LLC

Certification:

I 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.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Elizabeth Good

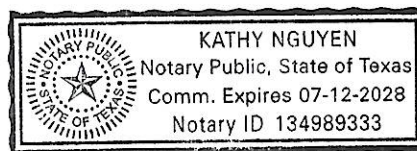
Signatory title: Partner

Signature: Elizabeth Good Date: 1/8/2025
(Use blue ink)

Subscribed and Sworn to before me by the said Elizabeth Good
on this 8 day of January, 20 25.
My commission expires on the 12 day of July, 20 28.

[Signature]
Notary Public

Travis
County, Texas



[SEAL]

Section 14. Signature Page (Instructions Page 34)

If co-applicants are necessary, each entity must submit an original, separate signature page.

Permit Number:

Applicant: SWOAKS290 Holding, LLC

Certification:

I 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.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Piruthiviraj Loganathan

Signatory title: Manager

Signature: _____

(Use blue ink)

Date: _____

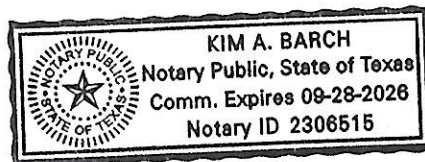
01/08/2025

Subscribed and Sworn to before me by the said Piruthiviraj Loganathan

on this 8 day of January, 20 25.

My commission expires on the 28 day of September, 20 26.

Kim A. Barch
Notary Public



[SEAL]

Collin County
County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☒ The applicant's property boundaries
 - ☒ The facility site boundaries within the applicant's property boundaries
 - ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☒ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☒ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
- ☐ USB Drive
 - ☒ Four sets of labels
- D. Provide the source of the landowners' names and mailing addresses: Travis County Appraisal District
- E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
- ☐ Yes
 - ☒ No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

Section 2. Original Photographs (Instructions Page 38)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

- ☒ At least one original photograph of the new or expanded treatment unit location
- ☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- ☒ At least one photograph of the existing/proposed effluent disposal site
- ☒ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.

- The applicant's property boundary;
- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.

B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.

- ☒ Ownership
- ☐ Restrictive easement
- ☐ Nuisance odor control
- ☐ Variance

C. Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?

- ☒ Yes ☐ No

English Plain Language Summary

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

Good and West Acquisitions, LLC, 508 Powell St, Austin TX 78703, and SWOAKS290 Holding, LLC, 421 Country Club Rd, Fairview, Texas 75069, propose to operate SW Oaks Wastewater Treatment Facility, a membrane bioreactor (MBR) system consisting of several process trains. The facility will be located approximately 0.65 miles northwest from the intersection of Hwy 290 and Rim Rock Trail near the city of Dripping Springs, Travis County, Texas 78737.

This application is for a new permit to dispose a daily average flow of not to exceed 61,280 gallons per day of treated domestic wastewater via subsurface area drip dispersal system within an area of 14.07 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅) and total suspended solids (TSS). Domestic wastewater will be treated by an MBR, and the system will have a primary screen, equalization tank, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize UV or chlorine disinfection. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.



Spanish Plain Language Summary

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo exige el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es federal. representaciones ejecutables de la solicitud de permiso.

Good and West Acquisitions, LLC, 508 Powell St, Austin TX 78703, y SWOAKS290 Holding, LLC, 421 Country Club Rd, Fairview, Texas 75069, proponen operar la instalación de tratamiento de aguas residuales SW Oaks, un sistema de biorreactor de membrana (MBR) que consta de varios trenes de proceso. La instalación estará ubicada aproximadamente a 0,65 millas al noroeste de la intersección de la autopista 290 y Rim Rock Trail cerca de la ciudad de Dripping Springs, condado de Travis, Texas 78737.

Esta solicitud es para un nuevo permiso para eliminar un flujo promedio diario que no exceda los 61,280 galones por día de aguas residuales domésticas tratadas a través de un sistema de dispersión por goteo en el subsuelo dentro de un área de 14.07 acres. Este permiso no autorizará una descarga de contaminantes al agua del estado.

Se espera que la aplicación al suelo de las aguas residuales domésticas de la instalación contenga la demanda bioquímica de oxígeno carbonoso (CBOD5) y los sólidos suspendidos totales (TSS) de cinco días. Las aguas residuales domésticas serán tratadas mediante un MBR y el sistema tendrá una pantalla primaria, un tanque de ecualización, múltiples trenes de proceso que constan de zonas anóxicas, de aireación, de membrana y tanques de retención de lodos. La instalación utilizará desinfección con UV o cloro. Además, la instalación incluye un almacenamiento temporal que equivale al menos a tres días del caudal medio diario.





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.) | | |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.) | | |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form) | | <input type="checkbox"/> 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 | | RN |

SECTION II: Customer Information

| | | | | | |
|--|--|--|---|---|--|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | 12/1/2024 | |
| <input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | | |
| <i>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).</i> | | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | If new Customer, enter previous Customer below: | | |
| Good and West Acquisitions, LLC | | | Good and West Acquisitions, LLC | | |
| 7. TX SOS/CPA Filing Number | | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID (9 digits) | 10. DUNS Number (if applicable) |
| 0803258844 | | 32070012136 | | | |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | | <input type="checkbox"/> Individual | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other | | <input type="checkbox"/> Sole Proprietorship | | <input checked="" type="checkbox"/> Other: LLC | |
| 12. Number of Employees | | | | 13. Independently Owned and Operated? | |
| <input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher | | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following | | | | | |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant | | | | | |
| 15. Mailing Address: | | 508 Powell St | | | |
| | | | | | |
| City | | Austin | | State | TX |
| ZIP | | 78703 | | ZIP + 4 | |
| 16. Country Mailing Information (if outside USA) | | | | 17. E-Mail Address (if applicable) | |
| | | | | good@goodandwest.com | |

| | | |
|-----------------------------|------------------------------|---------------------------------------|
| 18. Telephone Number | 19. Extension or Code | 20. Fax Number (if applicable) |
| (512) 983-1337 | | () - |

SECTION III: Regulated Entity Information

| | | | | | | | |
|---|-------------|--|--------------|--|------------|--|----------------|
| 21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.) | | | | | | | |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information | | | | | | | |
| <i>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).</i> | | | | | | | |
| 22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.) | | | | | | | |
| SW Oaks WWTF | | | | | | | |
| 23. Street Address of the Regulated Entity: (No PO Boxes) | | | | | | | |
| | | | | | | | |
| | City | | State | | ZIP | | ZIP + 4 |
| 24. County | Travis | | | | | | |

If no Street Address is provided, fields 25-28 are required.

| | | | | | | | |
|--|---|---------|--|---------------------------------------|--|-------|----------------|
| 25. Description to Physical Location: | The facility will be located approximately 0.65 miles northwest from the intersection of Hwy 290 and Rim Rock Trail | | | | | | |
| 26. Nearest City | State | | | | Nearest ZIP Code | | |
| Dripping Springs | TX | | | | 78737 | | |
| <i>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).</i> | | | | | | | |
| 27. Latitude (N) In Decimal: | 30.2170 | | | 28. Longitude (W) In Decimal: | -97.9767 | | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | | |
| 30 | 13 | 1.20 | -97 | 58 | 36.00 | | |
| 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) | | |
| | | | | | | | |
| 33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) | | | | | | | |
| Wastewater Treatment | | | | | | | |
| 34. Mailing Address: | 508 Powell St | | | | | | |
| | | | | | | | |
| | City | Austin | State | TX | ZIP | 78703 | ZIP + 4 |
| 35. E-Mail Address: | good@goodandwest.com | | | | | | |
| 36. Telephone Number | 37. Extension or Code | | | 38. Fax Number (if applicable) | | | |
| (512) 983-1337 | | | | () - | | | |

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.


| | | | | |
|--|--|---|--|---|
| <input type="checkbox"/> Dam Safety | <input type="checkbox"/> Districts | <input type="checkbox"/> Edwards Aquifer | <input type="checkbox"/> Emissions Inventory Air | <input type="checkbox"/> Industrial Hazardous Waste |
| <input type="checkbox"/> Municipal Solid Waste | <input type="checkbox"/> New Source Review Air | <input type="checkbox"/> OSSF | <input type="checkbox"/> Petroleum Storage Tank | <input type="checkbox"/> PWS |
| <input type="checkbox"/> Sludge | <input type="checkbox"/> Storm Water | <input type="checkbox"/> Title V Air | <input type="checkbox"/> Tires | <input type="checkbox"/> Used Oil |
| <input type="checkbox"/> Voluntary Cleanup | <input checked="" type="checkbox"/> Wastewater | <input type="checkbox"/> Wastewater Agriculture | <input type="checkbox"/> Water Rights | <input type="checkbox"/> Other: |

SECTION IV: Preparer Information

| | | | |
|-----------------------------|----------------------|-----------------------|---------------------------|
| 40. Name: | Janela Revilla | 41. Title: | Project Engineer |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
| (737) 864-3476 | | () - | jrevilla@jawastewater.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: | Good and West Acquisitions, LLC | Job Title: | Partner |
| Name (In Print): | Elizabeth Good | Phone: | (512) 983- 1337 |
| Signature: |  | Date: | 1/8/2025 |



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.) | | |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.) | | |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form) | | <input type="checkbox"/> 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 | | RN |

SECTION II: Customer Information

| | | | | | |
|---|---------------------|--|-------|---|--|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | 12/1/2024 | |
| <input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership | | | | | |
| <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | | |
| <i>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).</i> | | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | | <i>If new Customer, enter previous Customer below:</i> | |
| SWOAKS290 Holding, LLC | | | | | |
| 7. TX SOS/CPA Filing Number | | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID (9 digits) | 10. DUNS Number (if applicable) |
| 0803939936 | | 32077843517 | | | |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | | <input type="checkbox"/> Individual | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other | | <input type="checkbox"/> Sole Proprietorship | | <input checked="" type="checkbox"/> Other: LLC | |
| 12. Number of Employees | | | | 13. Independently Owned and Operated? | |
| <input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher | | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following | | | | | |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: | | | | | |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant | | | | | |
| 15. Mailing Address: | 421 Country Club Rd | | | | |
| | | | | | |
| | City | Fairview | State | TX | ZIP 75069 ZIP + 4 |
| 16. Country Mailing Information (if outside USA) | | | | 17. E-Mail Address (if applicable) | |
| | | | | prithivi@ustamil.com | |

| | | |
|-----------------------------|------------------------------|---------------------------------------|
| 18. Telephone Number | 19. Extension or Code | 20. Fax Number (if applicable) |
| () - | | () - |

SECTION III: Regulated Entity Information

| | | | | | | | |
|---|-------------|--|--------------|--|------------|--|----------------|
| 21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.) | | | | | | | |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information | | | | | | | |
| <i>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).</i> | | | | | | | |
| 22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.) | | | | | | | |
| SW Oaks WWTF | | | | | | | |
| 23. Street Address of the Regulated Entity: (No PO Boxes) | | | | | | | |
| | | | | | | | |
| | City | | State | | ZIP | | ZIP + 4 |
| 24. County | Travis | | | | | | |

If no Street Address is provided, fields 25-28 are required.

| | | | | | | | |
|--|---|----------|-------------------------------|---------------------------------------|---------------------------------|-------|----------------|
| 25. Description to Physical Location: | The facility will be located approximately 0.65 miles northwest from the intersection of Hwy 290 and Rim Rock Trail | | | | | | |
| 26. Nearest City | State | | | | Nearest ZIP Code | | |
| Dripping Springs | TX | | | | 78737 | | |
| <i>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).</i> | | | | | | | |
| 27. Latitude (N) In Decimal: | 30.2170 | | | 28. Longitude (W) In Decimal: | -97.9767 | | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | | |
| 30 | 13 | 1.20 | -97 | 58 | 36.00 | | |
| 29. Primary SIC Code | 30. Secondary SIC Code | | 31. Primary NAICS Code | | 32. Secondary NAICS Code | | |
| (4 digits) | (4 digits) | | (5 or 6 digits) | | (5 or 6 digits) | | |
| | | | | | | | |
| 33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) | | | | | | | |
| Wastewater Treatment | | | | | | | |
| 34. Mailing Address: | 421 Country Club Rd | | | | | | |
| | | | | | | | |
| | City | Fairview | State | TX | ZIP | 75069 | ZIP + 4 |
| 35. E-Mail Address: | prithivi@ustamil.com | | | | | | |
| 36. Telephone Number | 37. Extension or Code | | | 38. Fax Number (if applicable) | | | |
| () - | | | | () - | | | |

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.

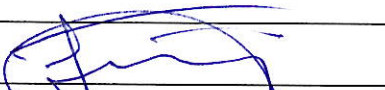
| | | | | |
|--|--|---|--|---|
| <input type="checkbox"/> Dam Safety | <input type="checkbox"/> Districts | <input type="checkbox"/> Edwards Aquifer | <input type="checkbox"/> Emissions Inventory Air | <input type="checkbox"/> Industrial Hazardous Waste |
| <input type="checkbox"/> Municipal Solid Waste | <input type="checkbox"/> New Source Review Air | <input type="checkbox"/> OSSF | <input type="checkbox"/> Petroleum Storage Tank | <input type="checkbox"/> PWS |
| <input type="checkbox"/> Sludge | <input type="checkbox"/> Storm Water | <input type="checkbox"/> Title V Air | <input type="checkbox"/> Tires | <input type="checkbox"/> Used Oil |
| <input type="checkbox"/> Voluntary Cleanup | <input checked="" type="checkbox"/> Wastewater | <input type="checkbox"/> Wastewater Agriculture | <input type="checkbox"/> Water Rights | <input type="checkbox"/> Other: |
| | | | | |

SECTION IV: Preparer Information

| | | | |
|-----------------------------|----------------------|-----------------------|---------------------------|
| 40. Name: | Janela Revilla | 41. Title: | Project Engineer |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
| (737) 864-3476 | | () - | jrevilla@jawastewater.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: | SWOAKS290 Holding, LLC | Job Title: | Manager |
| Name (In Print): | Piruthiviraj Loganathan | Phone: | (512) 994-7727 |
| Signature: |  | Date: | 01/08/2025 |



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:

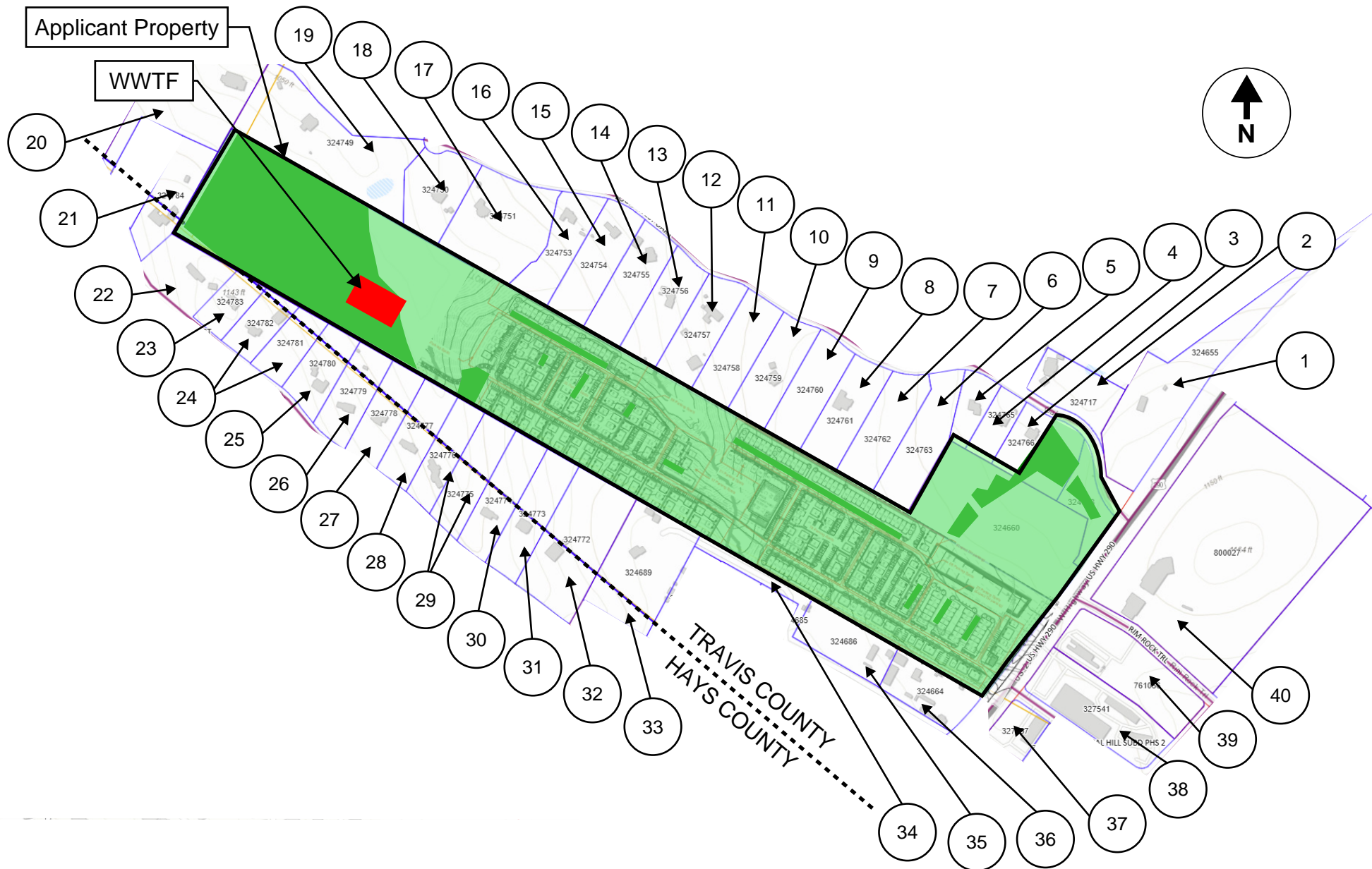
- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

**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.

This project is not considered to have significant public interest.

SW Oaks WWTF - Affected Landowner Map



SW Oaks WWTF - Affected Landowner List

| Address Source: https://travis.prodigycad.com/maps and https://gis.bisclient.com/hayscad/ | | | | 1-Dec-24 |
|---|----------------------|----------------------------------|--|----------|
| Map Label | Property ID Number | Owner Name | Mailing Address | |
| 1 | 324655 | PULERK HOLDINGS LLC | 5612 MEDICINE CREEK DRAUSTIN TX 78735-7916 | |
| 2 | 324717 | ISELL JAMES HORACE JR | 11008 SOUTH WEST OAKSAUSTIN TX 78737-9461 | |
| 3 | 324766 | PARK D'ANNE DUPREE & | 11011 SOUTHWEST OAKSAUSTIN TX 78737-9462 | |
| 4 | 324765 | BIRKEY DAVID WARREN & | 11015 SOUTHWEST OAKSAUSTIN TX 78737-9462 | |
| 5 | "PROPERTY NOT FOUND" | "PROPERTY NOT FOUND" | "PROPERTY NOT FOUND" | |
| 6 | 324763 | MINJARES JUAN & GENOVEVA G | 2302 E 10TH STREET UNT 1AUSTIN TX 78702 | |
| 7 | 324762 | ROACH JOHN & SHERI ROACH | 11027 SOUTH WEST OAKS AUSTIN TX 78737 | |
| 8 | 324761 | BARRIOS JOSE L & OLGA | 11021 SW OAKSAUSTIN TX 78737-9462 | |
| 9 | 324760 | STANFORD JOHN CHRISTOPHER & | 11105 SW OAKSAUSTIN TX 78737-9411 | |
| 10 | 324759 | ZIBELIN JOHN J & MY KHON HA | 11109 SW OAKSAUSTIN TX 78737-9411 | |
| 11 | 324758 | ARREDONDO ADAN & MISTY ARREDONDO | 11120 SHADY HOLLOW DRAUSTIN TX 78748-1830 | |
| 12 | 324757 | LEDESMA ALBERT & LYDIA G | 11205 SW OAKSAUSTIN TX 78737-9463 | |
| 13 | 324756 | 11209 SW OAKS LLC | 8500 SHOAL CREEK BLVD BLDG 4AUSTIN TX 78757-7591 | |
| 14 | 324755 | HULOT-SAGE CHRISTIAN | 11301 SOUTH WEST OAKSAUSTIN TX 78737-9409 | |
| 15 | 324754 | LOCKE VALERIE JO | 11305 SOUTH WEST OAKSAUSTIN TX 78737-9409 | |
| 16 | 324753 | BOGARD MICHAEL KELLY | 11401 SW OAKSAUSTIN TX 78737-9410 | |
| 17 | 324751 | VAN WINKLE KATHRYN | 11409 SOUTHWEST OAKSAUSTIN TX 78737-9410 | |
| 18 | 324750 | WHISTLER TERESA L | 11501 SW OAKSAUSTIN TX 78737-9407 | |
| 19 | 324749 | ANNATON PROPERTIES LLC | 24 REESE DRSUNSET VALLEY TX 78745-2613 | |
| 20 | 324786 | BOHM ARNO & DARLENE WILEY BOHM | PO BOX 90595AUSTIN TX 78709-0595 | |
| 21 | 324784 | CROUCH JEFFREY & SHARON J | 11700 OAK BRANCH DRAUSTIN TX 78737-8830 | |
| 22 | 36993 | RUNYON MARK & KELLY C | 11608 OAK BRANCH DR AUSTIN TX 78737 | |
| 23 | 324783 | NIX CRAIG M & LINDA M | 208 DIAMOND WOOD CTRDRIFTWOOD TX 78619-2105 | |
| 24 | 324782, 324781 | BROWN DANIEL L & TERRI C | 11600 OAK BRANCH DRAUSTIN TX 78737-8829 | |
| 25 | 324780 | NOVAK ROBERT J | 11500 OAK BRANCH DR AUSTIN TX 78737 | |
| 26 | 324779 | SIEVERS TRAVIS W & DANETTE | 11412 OAK BRANCH DRAUSTIN TX 78737-8827 | |
| 27 | 324778 | SYPTAK DANIEL & VANESSA | 11408 OAK BRANCH DRAUSTIN TX 78737-8827 | |
| 28 | 324777 | MARCHAND JOHN R & REANIE K | 11404 OAK BRANCH DRAUSTIN TX 78737-8827 | |
| 29 | 324776, 324775 | WHEAT WILLIAM M & PENNY C | 11400 OAK BRANCH DRAUSTIN TX 78737-8827 | |
| 30 | 324774 | BENDIK NATHAN & BETH M | 11304 OAK BRANCH DRAUSTIN TX 78737-8818 | |
| 31 | 324773 | FOWLER KEVIN & SHANA | 11300 OAK BRANCH DRAUSTIN TX 78737-8818 | |
| 32 | 324772 | MCCOWAN DORIS LEE | 11210 OAK BRANCH DRAUSTIN TX 78737-8817 | |
| 33 | 324689 | CLARK PATTI R | PO BOX 1306DRIPPING SPRINGS TX 78620-1306 | |
| 34 | 324685 | ALEXANDER ALLIE | 8917 SAM CARTER DRAUSTIN TX 78736-7960 | |
| 35 | 324686 | CULVER DAVID C | 12000 W HIGHWAY 290 STE DAUSTIN TX 78737-2802 | |
| 36 | 324664 | KOETTING MIKE | 12000 W HIGHWAY 290AUSTIN TX 78737-2815 | |
| 37 | 327557 | SILLS PARTNERS LTD | 8 COACH HOUSE RDAUSTIN TX 78737-9315 | |
| 38 | 327541 | MCCOY INVESTMENT LTD #69 | PO BOX 1028SAN MARCOS TX 78667-1028 | |
| 39 | 761056 | ARTH RIMROCK LLC | 5996 MATTERHORN DRFRISCO TX 75035-4869 | |
| 40 | 800027 | JOHNSON NORBERT | 6638 QUEENSCUB DRHOUSTON TX 77069-1215 | |

PULERK HOLDINGS LLC
5612 MEDICINE CREEK DR
AUSTIN TX 78735

ISELL JAMES HORACE JR
11008 SOUTH WEST OAKS
AUSTIN TX 78737

PARK D'ANNE DUPREE &
11011 SOUTHWEST OAKS
AUSTIN TX 78737

BIRKEY DAVID WARREN &
11015 SOUTHWEST OAKS
AUSTIN TX 78737

PROPERTY NOT FOUND
AUSTIN TX

MINJARES JUAN & GENOVEVA G
2302 E 10TH STREET UNT 1
AUSTIN TX 78702

ROACH JOHN & SHERI ROACH
11027 SOUTH WEST OAKS
AUSTIN TX 78737

BARRIOS JOSE L & OLGA
11021 SW OAKS
AUSTIN TX 78737

STANFORD JOHN CHRISTOPHER &
11105 SW OAKS
AUSTIN TX 78737

ZIBELIN JOHN J & MY KHON HA
11109 SW OAKS
AUSTIN TX 78737

ARREDONDO ADAN & MISTY ARREDONDO
11120 SHADY HOLLOW DR
AUSTIN TX 78748

LEDESMA ALBERT & LYDIA G
11205 SW OAKS
AUSTIN TX 78737

11209 SW OAKS LLC
8500 SHOAL CREEK BLVD BLDG 4
AUSTIN TX 78757

HULOT-SAGE CHRISTIAN
11301 SOUTH WEST OAKS
AUSTIN TX 78737

LOCKE VALERIE JO
11305 SOUTH WEST OAKS
AUSTIN TX 78737

BOGARD MICHAEL KELLY
11401 SW OAKS
AUSTIN TX 78737

VAN WINKLE KATHRYN
11409 SOUTHWEST OAKS
AUSTIN TX 78737

WHISTLER TERESA L
11501 SW OAKS
AUSTIN TX 78737

ANNATON PROPERTIES LLC
24 REESE DR
SUNSET VALLEY TX 78745

BOHM ARNO & DARLENE WILEY BOHM
PO BOX 90595
AUSTIN TX 78709

CROUCH JEFFREY & SHARON J
11700 OAK BRANCH DR
AUSTIN TX 78737

HAYS PERSON
AUSTIN TX

NIX CRAIG M & LINDA M
208 DIAMOND WOOD CT
DRIFTWOOD TX 78619

BROWN DANIEL L & TERRI C
11600 OAK BRANCH DR
AUSTIN TX 78737

NOVAK ROBERT J
11500 OAK BRANCH DR AUSTIN TX 78737
AUSTIN TX 78737

SIEVERS TRAVIS W & DANETTE
11412 OAK BRANCH DR
AUSTIN TX 78737

SYPTAK DANIEL & VANESSA
11408 OAK BRANCH DR
AUSTIN TX 78737

MARCHAND JOHN R & REANIE K
11404 OAK BRANCH DR
AUSTIN TX 78737

WHEAT WILLIAM M & PENNY C
11400 OAK BRANCH DR
AUSTIN TX 78737

BENDIK NATHAN & BETH M
11304 OAK BRANCH DR
AUSTIN TX 78737

FOWLER KEVIN & SHANA
11300 OAK BRANCH DR
AUSTIN TX 78737

MCCOWAN DORIS LEE
11210 OAK BRANCH DR
AUSTIN TX 78737

CLARK PATTI R
PO BOX 1306
DRIPPING SPRINGS TX 78620

ALEXANDER ALLIE
8917 SAM CARTER DR
AUSTIN TX 78737

CULVER DAVID C
12000 W HIGHWAY 290 STE D
AUSTIN TX 78737

KOETTING MIKE
12000 W HIGHWAY 290
AUSTIN TX 78737

SILLS PARTNERS LTD
8 COACH HOUSE RD
AUSTIN TX 78737

MCCOY INVESTMENT LTD #69
PO BOX 1028
SAN MARCOS TX 78667

ARTH RIMROCK LLC
5996 MATTERHORN DR
FRISCO TX 75035

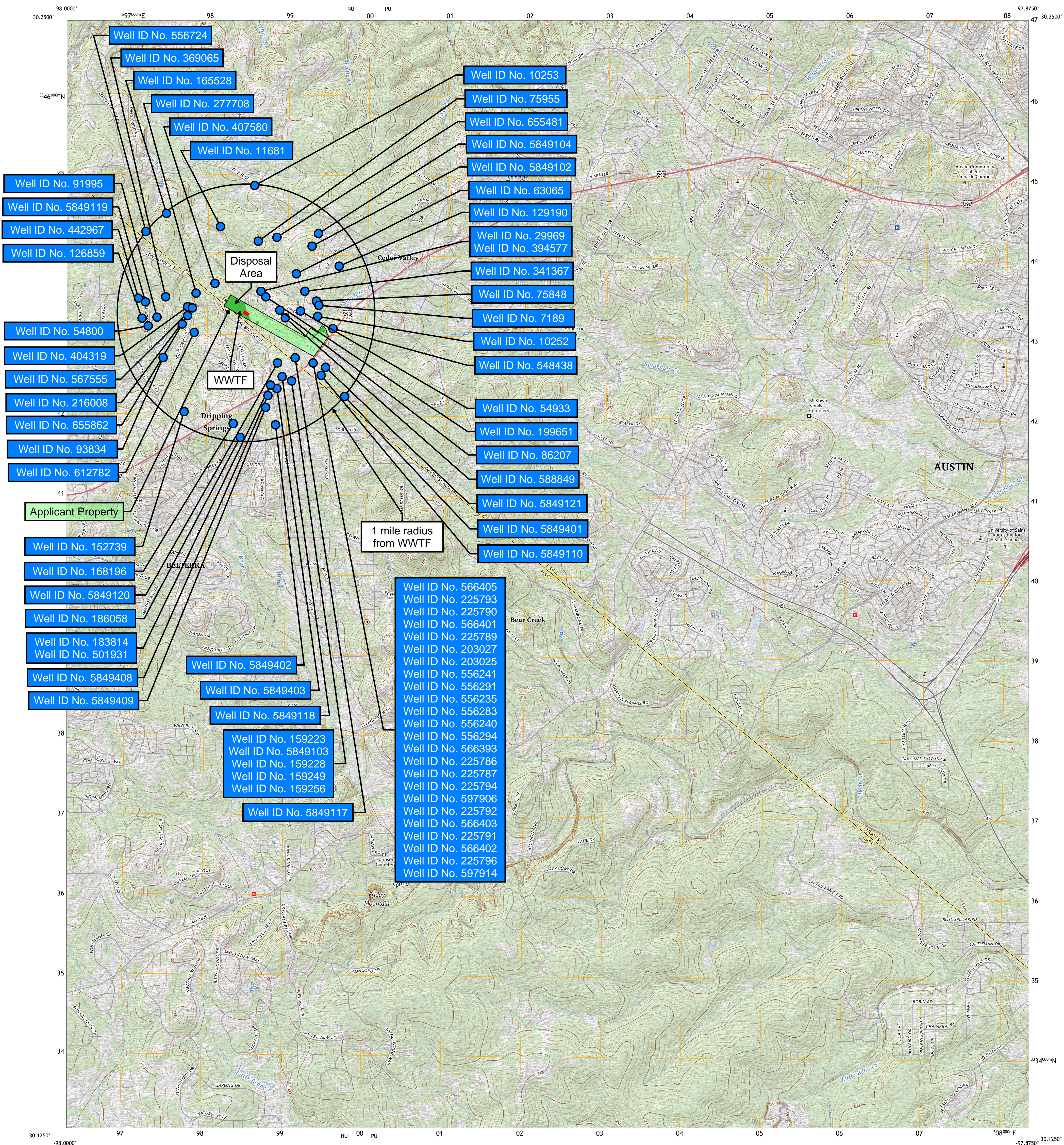
JOHNSON NORBERT
6638 QUEENSCLUB DR
HOUSTON TX 77069



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

SW Oaks WWTF USGS Map

SIGNAL HILL QUADRANGLE
TEXAS
7.5-MINUTE TOPO

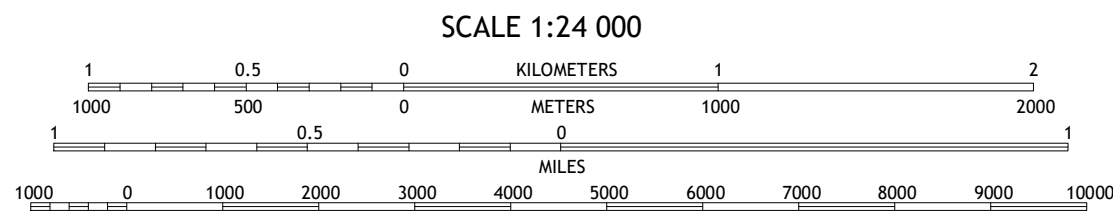
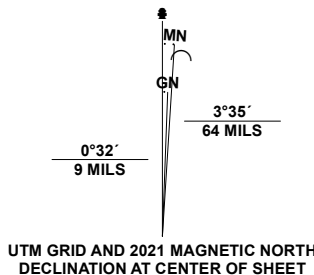


Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid/Universal Transverse Mercator, Zone 14R.
Data is provided by The National Map (TNM), is the best available at the time of map
generation, and includes data content from supporting themes of Elevation,
Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover,
and Orthoregistry. Refer to associated Federal Geographic Data Committee (FGDC)
Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale.
Private lands within government reservations may not be shown. Obtain permission
before entering private lands. Temporal changes may have occurred since this data
were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: <https://nationalmap.gov>



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT



| QUADRANGLE LOCATION | | |
|---------------------|---------------|-------------|
| Shingle Hills | Bee Cave | Austin West |
| Dripping Springs | Signal Hill | Oak Hill |
| Driftwood | Mountain City | Buda |

ADJOINING QUADRANGLES

| ROAD CLASSIFICATION | |
|---------------------|-----------------|
| Expressway | Local Connector |
| Secondary Hwy | Local Road |
| Ramp | 4WD |
| Interstate Route | US Route |
| | State Route |

SIGNAL HILL, TX
2024



STATE OF TEXAS PLUGGING REPORT for Tracking #7189

| | | | |
|----------------|---|---------------|----------------|
| Owner: | MARK MULLER | Owner Well #: | 001 |
| Address: | 15317 OZONE PLACE AUSTIN, TX 78728 | Grid #: | 58-49-1 |
| Well Location: | LOT 1 OAK RUN ESTATES AUSTIN, TX 78737 | Latitude: | 30° 13' 04" N |
| Well County: | Travis | Longitude: | 097° 58' 02" W |
| | | Elevation: | No Data |

Well Type: **Withdrawal of Water**

Drilling Information

| | | | |
|----------|---------|-----------------|---------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | No Data |

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 6 | | 460 |

Plugging Information

Date Plugged: **6/20/2002** Plugger: **JIM BLAIR**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 6 | 0 | 20 |

Plug(s) Placed in Well:

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|-----------|--------------|--|
| 0 | 460 | 28 |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR** License Number: **54416**

Comments: **WE SET OUR TREMMIE PIPE (1.25" PVC) AS DEEP AS WE COULD GET IT AND GROUTED WITH BENTONITE SLURRY TO THE SURFACE. WE THEN REMOVED THE TOP TWO FEET OF BENTONITE AND POURED.**

STATE OF TEXAS PLUGGING REPORT for Tracking #152739

| | | | |
|----------------|---|---------------|------------------|
| Owner: | Mike Schoenfeld | Owner Well #: | No Data |
| Address: | 13115 Four Star Blvd. Austin, TX 78737 | Grid #: | 58-49-4 |
| Well Location: | 13115 Four Star Blvd. Austin, TX 78737 | Latitude: | 30° 12' 21" N |
| Well County: | Hays | Longitude: | 097° 59' 04.6" W |
| | | Elevation: | 1183 |
| Well Type: | Domestic | | |

Drilling Information

| | | | |
|-----------|---------|-----------------|---------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | No Data | License Number: | No Data |
| Borehole: | No Data | | |

Plugging Information

Date Plugged: 9/29/2015 Plugger: Jared Thompson

Plug Method: Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet

Casing Left in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 6 | 1 | 20 |

Plug(s) Placed in Well:

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|-----------|--------------|--|
| 0 | 7 | Cement 3 Bags/Sacks |
| 7 | 640 | Bentonite 76 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: Bee Cave Drilling, Inc.
185 Angel Fire Dr.
Dripping Springs, TX 78620

Driller Name: Jim Blair License Number: 54416

Comments: We were late filing this due to flooding

STATE OF TEXAS PLUGGING REPORT for Tracking #159223

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | ASTEX ENVIRONMENTAL | Owner Well #: | WELL #1 |
| Address: | 139 BRANIFF DRIVE SAN ANTONIO, TX 78216 | Grid #: | 58-49-1 |
| Well Location: | 12155 WEST HWY. 290 AUSTIN, TX 78737 | Latitude: | 30° 12' 34.26" N |
| Well County: | Travis | Longitude: | 097° 58' 14.22" W |
| | | Elevation: | No Data |

| | | | |
|------------|----------------------------|--------------------------|----------|
| Well Type: | Withdrawal of Water | Number of Wells Plugged: | 2 |
|------------|----------------------------|--------------------------|----------|

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | UNKNOWN | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | UNKNOWN |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 5 | 0 | 490 |

Plugging Information

Date Plugged: **5/16/2016** Plugger: **AARON GLASS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 5 | 0 | 490 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 490 | Bentonite 5 Bags/Sacks |
| 0 | 490 | Cement 80 Bags/Sacks |
| 115 | 140 | HOLE PLUG 35 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **THERE WAS A VOID THAT WOULDN'T FILL HAD TO INSERT 35 BAGS OF HOLE PLUG FROM 140' UP TO 115'.**

STATE OF TEXAS PLUGGING REPORT for Tracking #159228

| | | | |
|----------------|---|---------------|-------------------------|
| Owner: | ASTEX ENVIRONMENTAL | Owner Well #: | WELL #2 |
| Address: | 139 BRANIFF DRIVE AUSTIN, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 12115 WEST HWY. 290 AUSTIN, TX 78737 | Latitude: | 30° 12' 33.72" N |
| Well County: | Travis | Longitude: | 097° 58' 13.8" W |
| | | Elevation: | No Data |

| | | | |
|------------|----------------------------|--------------------------|----------|
| Well Type: | Withdrawal of Water | Number of Wells Plugged: | 2 |
|------------|----------------------------|--------------------------|----------|

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | UNKNOWN | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | UNKNOWN |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 5 | 0 | 510 |

Plugging Information

Date Plugged: **5/16/2016** Plugger: **AARON GLASS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 5 | 0 | 510 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 510 | Bentonite 5 Bags/Sacks |
| 0 | 510 | Cement 67 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #159249

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | ASTEX ENVIRONMENTAL | Owner Well #: | WELL #3 |
| Address: | 139 BRANIFF DRIVE SAN ANTONIO, TX 78216 | Grid #: | 58-49-1 |
| Well Location: | 12117 WEST HWY. 290 AUSTIN, TX 78737 | Latitude: | 30° 12' 32.94" N |
| Well County: | Hays | Longitude: | 097° 58' 16.14" W |
| | | Elevation: | No Data |

| | | | |
|------------|----------------------------|--------------------------|----------|
| Well Type: | Withdrawal of Water | Number of Wells Plugged: | 2 |
|------------|----------------------------|--------------------------|----------|

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | UNKNOWN | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | UNKNOWN |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 280 |

Plugging Information

Date Plugged: **5/16/2016** Plugger: **AARON GLASS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 6 | 0 | 21 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 280 | Bentonite 5 Bags/Sacks |
| 0 | 280 | Cement 59 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #159256

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | ASTEX ENVIRONMENTAL | Owner Well #: | WELL #4 |
| Address: | 139 BRANIFF DRIVE SAN ANTONIO, TX 78216 | Grid #: | 58-49-1 |
| Well Location: | 12117 WEST HWY. 290 AUSTIN, TX 78737 | Latitude: | 30° 12' 32.82" N |
| Well County: | Hays | Longitude: | 097° 58' 16.2" W |
| | | Elevation: | No Data |

| | | | |
|------------|----------------------------|--------------------------|----------|
| Well Type: | Withdrawal of Water | Number of Wells Plugged: | 2 |
|------------|----------------------------|--------------------------|----------|

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | UNKNOWN | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | UNKNOWN |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 148 |

Plugging Information

Date Plugged: **5/16/2016** Plugger: **AARON GLASS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 6 | 0 | 21 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 148 | Bentonite 2 Bags/Sacks |
| 0 | 148 | Cement 34 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #168196

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | RON GRIMM | Owner Well #: | 1 |
| Address: | PO BOX 290 AUSTIN, TX 78701 | Grid #: | 58-49-4 |
| Well Location: | E HWY 290 DRIPPINGS SPRINGS, TX 78620 | Latitude: | 30° 12' 16.18" N |
| | ON 290 EAST, BETWEEN BELTERRA DRIVE AND NUTTY BROWN ROAD. ON THE SOUTH SIDE OF 290, NEAR THE MAIN ENTRANCE TO BELTERRA. 200 YARDS BACK AND TO THE RIGHT | Longitude: | 097° 58' 41.52" W |
| | | Elevation: | No Data |
| Well County: | Hays | | |
| Well Type: | Withdrawal of Water | | |

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | No Data | License Number: | No Data |

| | | | |
|-----------|-----------------------|------------------------|---------------------------|
| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
| Borehole: | 8 | 0 | 158 |

Plugging Information

| | | | |
|---------------|---|----------|-------------------|
| Date Plugged: | 3/6/2017 | Plugger: | FRED SMITH |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

No Data

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 2 | 25 | Cement 2 Bags/Sacks |
| 25 | 158 | Bentonite 13 Bags/Sacks |

| | |
|---------------------|--|
| Certification Data: | The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal. |
|---------------------|--|

Company Information: **Hydro Resources Mid-Continent, Inc.**

**31866 RR 12
Dripping Springs, TX 78620**

Driller Name: **FRED SMITH**

License Number: **54437**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #183814

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | Proposed 7-Eleven # 38575 | Owner Well #: | TMW-1 |
| Address: | Oak Branch Drive & Hwy 290 Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | Oak Branch Drive & Hwy 290 Austin, TX 78737 | Latitude: | 30° 12' 32.06" N |
| Well County: | Hays | Longitude: | 097° 58' 24.36" W |
| | | Elevation: | 1191 |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|--|-----------------|------------------|
| Company: | Roddy Qualls Environmental Drilling | Date Drilled: | 1/10/2019 |
| Driller: | Jon M Storm | License Number: | 5003 |

Well Report Tracking #501931

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 42.5 |

Plugging Information

| | | | |
|---------------|---|----------|------------------|
| Date Plugged: | 1/10/2019 | Plugger: | Jon Storm |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Cement 1 Bags/Sacks |
| 2 | 42.5 | Bentonite 2 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Roddy Qualls Environmental Drilling**
314 thomas pl
everman, TX 76140

| | | | |
|---------------|------------------|-----------------|-------------|
| Driller Name: | Jon Storm | License Number: | 5003 |
|---------------|------------------|-----------------|-------------|

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #186058

| | | | |
|----------------|--|---------------|-----------------------|
| Owner: | Crescent Communities | Owner Well #: | No Data |
| Address: | 7000 N. Mopac Expressway Suite 360 Austin, TX 78731 | Grid #: | 58-49-4 |
| Well Location: | Trinity Hills Dr. Austin, TX 78731 | Latitude: | 30° 12' 10" N |
| Well County: | Hays | Longitude: | 097° 58' 39" W |
| | | Elevation: | No Data |
| Well Type: | Withdrawal of Water | | |

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | No Data | License Number: | No Data |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 315 |

Plugging Information

Date Plugged: **4/9/2019** Plugger: **Mike Scott**

Plug Method: **Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 4.5 | 2 | 20 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Cement 2 Bags/Sacks |
| 2 | 315 | Bentonite 27 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Bee Cave Drilling, Inc.**
185 Angel Fire Dr.
Dripping Springs, TX 78620

Driller Name: **Jim Blair** License Number: **54416**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #203025

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | B-5/TMW-1 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.51" N |
| Well County: | Travis | Longitude: | 097° 58' 04.92" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 10/6/2020 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #556291

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 15 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 10/6/2020 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 1 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.29 Bags/Sacks |
| 2 | 15 | Bentonite 0.46 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Tony Elmendorf | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #203027

| | | | |
|----------------|--|---------------|-------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | B-6/TMW-2 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.51" N |
| Well County: | Travis | Longitude: | 097° 58' 04.92" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|------------------------------|-----------------|-----------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 10/6/2020 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #556294

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 4 | 0 | 15 |

Plugging Information

| | | | |
|---------------|--|----------|--------------|
| Date Plugged: | 10/6/2020 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 1 | 0 | 0 |

Plug(s) Placed in Well:

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|-----------|--------------|--|
| 0 | 2 | Concrete 0.29 Bags/Sacks |
| 2 | 15 | Bentonite 0.46 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: Vortex Drilling Partners, LP
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|----------------|-----------------|------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Tony Elmendorf | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225786

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-1**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.04" N**

Longitude: **097° 58' 05.66" W**

Well County: **Travis**

Elevation: **No Data**

Well Type: **Monitor**

Drilling Information

Company: **Vortex Drilling Partners, LP**

Date Drilled: **1/28/2021**

Driller: **James E Neal**

License Number: **4868**

Well Report Tracking #566393

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21.5 |

Plugging Information

Date Plugged: **11/21/2022**

Plugger: **James E Neal**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth,
cement top 2 feet**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Gustavo Garcia**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #225787

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-2**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 39.93" N**

Longitude: **097° 58' 04.69" W**

Well County: **Travis**

Elevation: **No Data**

Well Type: **Monitor**

Drilling Information

Company: **Vortex Drilling Partners, LP**

Date Drilled: **1/28/2021**

Driller: **James E Neal**

License Number: **4868**

Well Report Tracking #566398

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

Date Plugged: **11/21/2022**

Plugger: **James E Neal**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth,
cement top 2 feet**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Gustavo Garcia**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #225789

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-3 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.69" N |
| Well County: | Travis | Longitude: | 097° 58' 05.6" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566400

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 5 | 20 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225790

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-4 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 41.08" N |
| Well County: | Travis | Longitude: | 097° 58' 05.15" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566401

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225791

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-5 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.04" N |
| Well County: | Travis | Longitude: | 097° 58' 03.8" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566402

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 5 | 20 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225792

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-6 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.82" N |
| Well County: | Travis | Longitude: | 097° 58' 03.46" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566403

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225793

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-7 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 41.6" N |
| Well County: | Travis | Longitude: | 097° 58' 04.26" W |
| | | Elevation: | No Data |

Well Type: **Monitor**

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566405

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

Date Plugged: **11/21/2022** Plugger: **James E Neal**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225794

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil, Inc. | Owner Well #: | MW-8 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 39.44" N |
| Well County: | Travis | Longitude: | 097° 58' 04.96" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 2/11/2022 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #597906

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 22 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225796

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil, Inc. | Owner Well #: | MW-9 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 38.42" N |
| Well County: | Travis | Longitude: | 097° 58' 02.65" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 2/11/2022 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #597914

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 22 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

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| | |
|---|--|
| State Well Number | 5849102 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.224444 |
| Latitude (degrees minutes seconds) | 30° 13' 28" N |
| Longitude (decimal degrees) | -97.968055 |
| Longitude (degrees minutes seconds) | 097° 58' 05" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | 218GLRSU - Glen Rose Limestone, Upper Member |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1170 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 400 |
| Well Depth Source | Unknown |
| Drilling Start Date | |
| Drilling End Date | 0/0/1963 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|---------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | R.G. Rutter |
| Driller | Davis Rutter |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | |
| Created Date | |
| Last Update Date | 3/4/2020 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 1/8/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone, Upper Member

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 365 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 445.43 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 133 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 16 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.9 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 578 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 60 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 3.5 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.4 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 10 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.33 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 18 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1264 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 206 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 21 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 668 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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[Well Basic Details](#)
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| | |
|---|---|
| State Well Number | 5849103 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.209445 |
| Latitude (degrees minutes seconds) | 30° 12' 34" N |
| Longitude (decimal degrees) | -97.970555 |
| Longitude (degrees minutes seconds) | 097° 58' 14" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GRHC - Glen Rose LS and Hensell SH and Cow Creek LS Members of Pearsall FM |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1190 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 705 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 7/0/1968 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Amanda Hudson |
| Driller | Richard L. Bible Drilling Co. |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 8/2/1990 |
| Last Update Date | 4/20/1994 |

Remarks Open hole from 300 to 705 ft. Pump set at 683 ft.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 1/8/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose LS and Hensell SH and Cow Creek LS
Members of Pearsall FM

Analyzed Lab: Texas Department of Health

Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 303 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 369.76 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 174 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 19 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.4 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 709 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 67 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 1 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.3 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 0 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 12 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.2 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 3 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 12 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1566 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 371 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 840 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|--------------------------------|
| State Well Number | 5849104 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.2258333 |
| Latitude (degrees minutes seconds) | 30° 13' 33" N |
| Longitude (decimal degrees) | -97.9672222 |
| Longitude (degrees minutes seconds) | 097° 58' 02" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1140 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 262 |
| Well Depth Source | Unknown |
| Drilling Start Date | |
| Drilling End Date | |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|---|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | Piston |
| Pump Depth (feet below land surface) | |
| Power Type | Windmill |
| Annular Seal Method | |
| Surface Completion | |
| Owner | R.G. Rutter |
| Driller | Charles Hayden |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | Well J-33 in 1957 Travis County report. |
| Previous State Well Number | |
| Reporting Agency | |
| Created Date | |
| Last Update Date | 5/9/2020 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-110**

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Well Basic Details

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| | |
|---|--------------------------------|
| State Well Number | 5849110 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.210001 |
| Latitude (degrees minutes seconds) | 30° 12' 36" N |
| Longitude (decimal degrees) | -97.966944 |
| Longitude (degrees minutes seconds) | 097° 58' 01" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1165 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 460 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 0/0/1968 |
| Drilling Method | Cable Tool |
| Borehole Completion | Open Hole |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Emmett Smith |
| Driller | Dick Sanders |
| Other Data Available | Drillers Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/27/1998 |
| Last Update Date | 3/4/2020 |

Remarks

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-117**

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[Well Basic Details](#)
[Scanned Documents](#)

| | |
|---|--------------------------------|
| State Well Number | 5849117 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.211667 |
| Latitude (degrees minutes seconds) | 30° 12' 42" N |
| Longitude (decimal degrees) | -97.970278 |
| Longitude (degrees minutes seconds) | 097° 58' 13" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1190 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 540 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 0/0/1972 |
| Drilling Method | Cable Tool |
| Borehole Completion | Open Hole |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Stock |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Raymond Klingeman |
| Driller | Richard Bible |
| Other Data Available | Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/27/1998 |
| Last Update Date | 3/4/2020 |

Remarks Reported yield 2 GPM with 60 feet drawdown after pumping 1/2 hour in 1972. Specific capacity 0.03.

Casing - No Data

Well Tests - No Data

Lithology - No Data

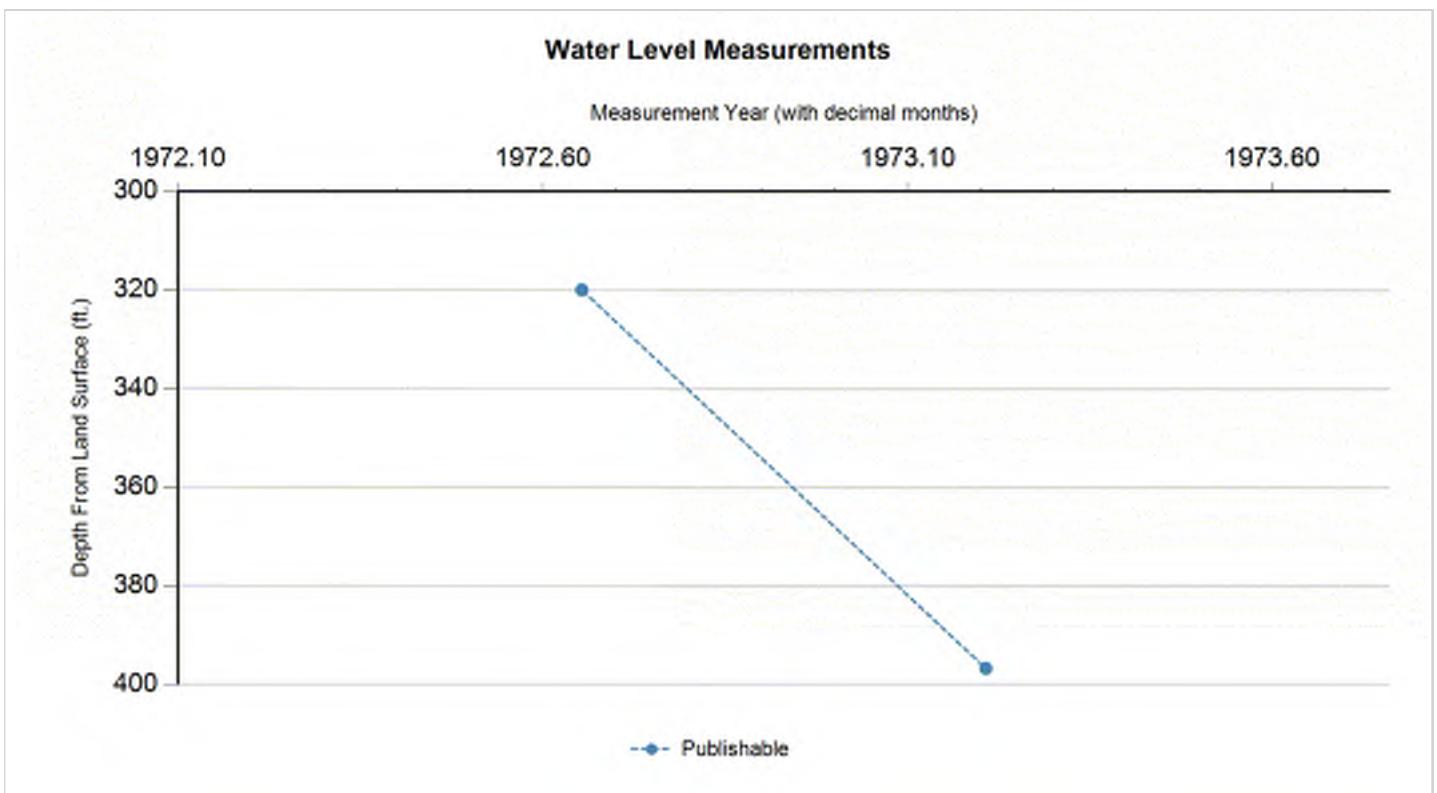
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|--|---------|-----------|----------|
| P | 7/0/1972 | | 320 | | 870 | 1 | Other or Source of Measurement Unknown | Unknown | | |
| P | 3/16/1973 | | 396.7 | 76.70 | 793.3 | 1 | Other or Source of Measurement Unknown | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 2/27/1973 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 290.08 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 354 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 477 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 27 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.5 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 1835 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 157 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | < | 0.4 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.4 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 11 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.19 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 2 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 19 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 4402 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 1500 | mg/L as SO ₄ | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 2367 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-118**

[GWDB Reports and Downloads](#)

Well Basic Details

[Scanned Documents](#)

| | |
|---|-------------------------------|
| State Well Number | 5849118 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.209723 |
| Latitude (degrees minutes seconds) | 30° 12' 35" N |
| Longitude (decimal degrees) | -97.971944 |
| Longitude (degrees minutes seconds) | 097° 58' 19" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1200 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 623 |
| Well Depth Source | Person Other than Owner |
| Drilling Start Date | |
| Drilling End Date | 0/0/1931 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|--|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Mrs. F.J. Turck |
| Driller | S.W. Glass |
| Other Data Available | Caliper; Electric Log; Gamma Ray; Gamma-Gamma; Neutron |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 8/2/1990 |
| Last Update Date | 7/10/2008 |

Remarks Well B-63 in Texas Board of Water Engineers Bulletin 6004. Deepened from 235 to 623 ft in Nov.1950.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 8/26/1952 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: U.S. Geological Survey Lab

Reliability: From a report; unknown sample collection & preservation

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 344.98 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 420.99 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 178 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 30 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.6 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 900 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 111 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 0.2 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.4 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 12 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.42 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | calculated | 29 | mg/L | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 547 | mg/L as SO ₄ | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1116 | mg/L | |

Water Quality Analysis

Sample Date: 9/17/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: after pressure tank

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|-------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 249 | mg/L as CaCO 3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 303.87 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 217 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 35 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.7 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 1236 | mg/L as CaCO 3 | |
| 00920 | MAGNESIUM (MG/L) | | 169 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | < | 0.4 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 8 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 12 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.46 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 37 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 3068 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 960 | mg/L as SO4 | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1582 | mg/L | |

Water Quality Analysis

Sample Date: 6/28/1977 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|-------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 314 | mg/L as CaCO 3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 383.19 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 204 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 31 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.4 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 1060 | mg/L as CaCO 3 | |
| 00920 | MAGNESIUM (MG/L) | | 134 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 2 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.6 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 13 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 13 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.44 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 33 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2560 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 790 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1410 | mg/L | |

Water Quality Analysis

Sample Date: 5/9/1986 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 314 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 383.19 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 296 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 35 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.2 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 1314 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 140 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 0.09 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.7 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 15 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 12 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.48 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 40 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 3276 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 1039 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1768 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|-------------------------------|
| State Well Number | 5849119 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.218055 |
| Latitude (degrees minutes seconds) | 30° 13' 05" N |
| Longitude (decimal degrees) | -97.989722 |
| Longitude (degrees minutes seconds) | 097° 59' 23" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1116 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 530 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 1/0/1983 |
| Drilling Method | Air Rotary |
| Borehole Completion | Open Hole |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | Historical |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Larry Ingram |
| Driller | |
| Other Data Available | Drillers Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 2/22/1991 |
| Last Update Date | 4/20/1994 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

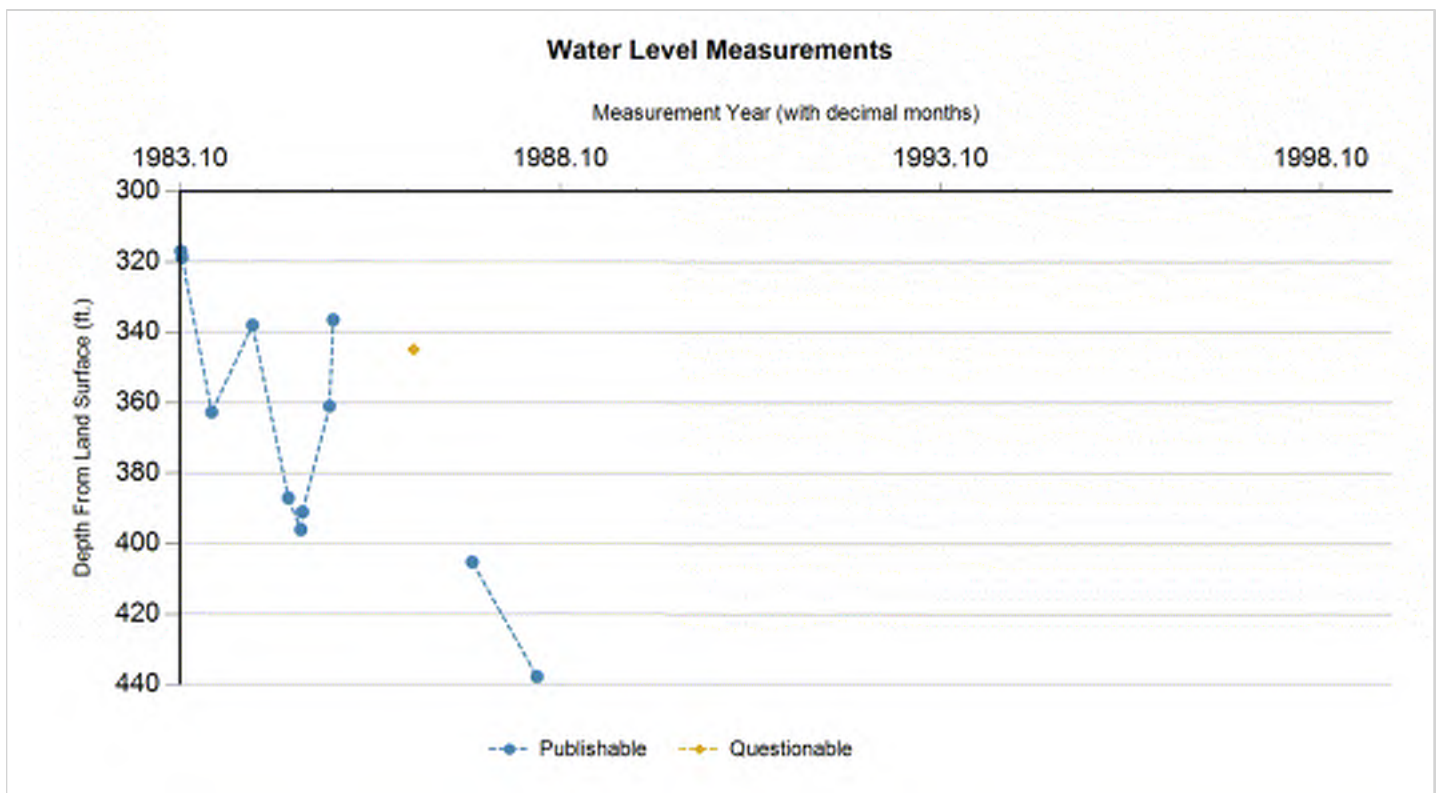
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|------------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------------|-----------|----------|
| P | 2/13/1983 | | 317 | | 799 | 1 | Texas Water Development Board | Electric Line | | |
| P | 2/18/1983 | | 318.79 | 1.79 | 797.21 | 1 | Texas Water Development Board | Steel Tape | | |
| P | 7/11/1983 | | 362.7 | 43.91 | 753.3 | 1 | Texas Water Development Board | Electric Line | | |
| P | 1/22/1984 | | 338 | (24.70) | 778 | 1 | Texas Water Development Board | Electric Line | | |
| P | 7/14/1984 | | 387 | 49.00 | 729 | 1 | Texas Water Development Board | Electric Line | | |
| P | 9/14/1984 | | 396 | 9.00 | 720 | 1 | Texas Water Development Board | Electric Line | | |
| P | 9/22/1984 | | 391 | (5.00) | 725 | 1 | Texas Water Development Board | Electric Line | | |
| P | 1/26/1985 | | 361 | (30.00) | 755 | 1 | Texas Water Development Board | Electric Line | | |
| P | 2/14/1985 | | 336.5 | (24.50) | 779.5 | 1 | Texas Water Development Board | Electric Line | | |
| Q | 3/5/1986 | | 344.89 | 8.39 | 771.11 | 1 | Texas Water Development Board | Electric Line | 10 | |
| P | 12/16/1986 | | 405.2 | 60.31 | 710.8 | 1 | Texas Water Development Board | Electric Line | | |
| P | 10/22/1987 | | 437.7 | 32.50 | 678.3 | 1 | Texas Water Development Board | Electric Line | | |
| X | 2/9/1989 | | | | | 1 | Texas Water Development Board | | 30 | |
| X | 1/8/1999 | | | | | 1 | Texas Water Development Board | | 19 | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |
| Q | Questionable |
| X | No Measurement |

| Remark ID | Remark Description |
|-----------|--|
| 10 | Inconsistent or spotty tape mark due to wet or leaking casing |
| 19 | Well pumping |
| 30 | Well temporarily inaccessible due to impassable roads, locked gate, etc. |

Water Quality Analysis

Sample Date: 2/18/1983 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: on 20 min. - at pressure tank

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 311 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 379.53 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 104 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 32 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.6 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 638 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 92 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | < | 0.04 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.7 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 10 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 12 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.46 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 8 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 27 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1580 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 338 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 805 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-120**

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| | |
|---|-------------------------------|
| State Well Number | 5849120 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.211389 |
| Latitude (degrees minutes seconds) | 30° 12' 41" N |
| Longitude (decimal degrees) | -97.9725 |
| Longitude (degrees minutes seconds) | 097° 58' 21" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218CCRK - Cow Creek Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1185 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 735 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 6/22/1983 |
| Drilling Method | Air Rotary |
| Borehole Completion | Open Hole |

| | |
|---|---|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Jack Overton |
| Driller | Bryon Benoit |
| Other Data Available | Drillers Log; Electric Log; Gamma Ray; Gamma-Gamma; Neutron |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 6/24/2008 |
| Last Update Date | 6/24/2008 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 6/22/1983 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Cow Creek Limestone

Analyzed Lab: Texas Department of Health

Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 313 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 381.97 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 531 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 35 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.9 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 2098 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 188 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | < | 0.04 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.7 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 17 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 12 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.28 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 3 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 30 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 5376 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 1803 | mg/L as SO4 | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 2807 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|--------------------------------|
| State Well Number | 5849121 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.210834 |
| Latitude (degrees minutes seconds) | 30° 12' 39" N |
| Longitude (decimal degrees) | -97.966389 |
| Longitude (degrees minutes seconds) | 097° 57' 59" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 217HSTN - Hosston Formation |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1168 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 1020 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 6/3/1985 |
| Drilling Method | Air Rotary |
| Borehole Completion | Open Hole |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Bill Howell Signal Hill |
| Driller | Frank Glass |
| Other Data Available | Drillers Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/5/1987 |
| Last Update Date | 3/4/2020 |

Remarks Estimated yield 35 GPM in 1985. Cemented from 0 to 800 feet.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 7 | Blank | Steel | | | 0 | 800 |
| 6 | Open Hole | | | | 800 | 1020 |

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

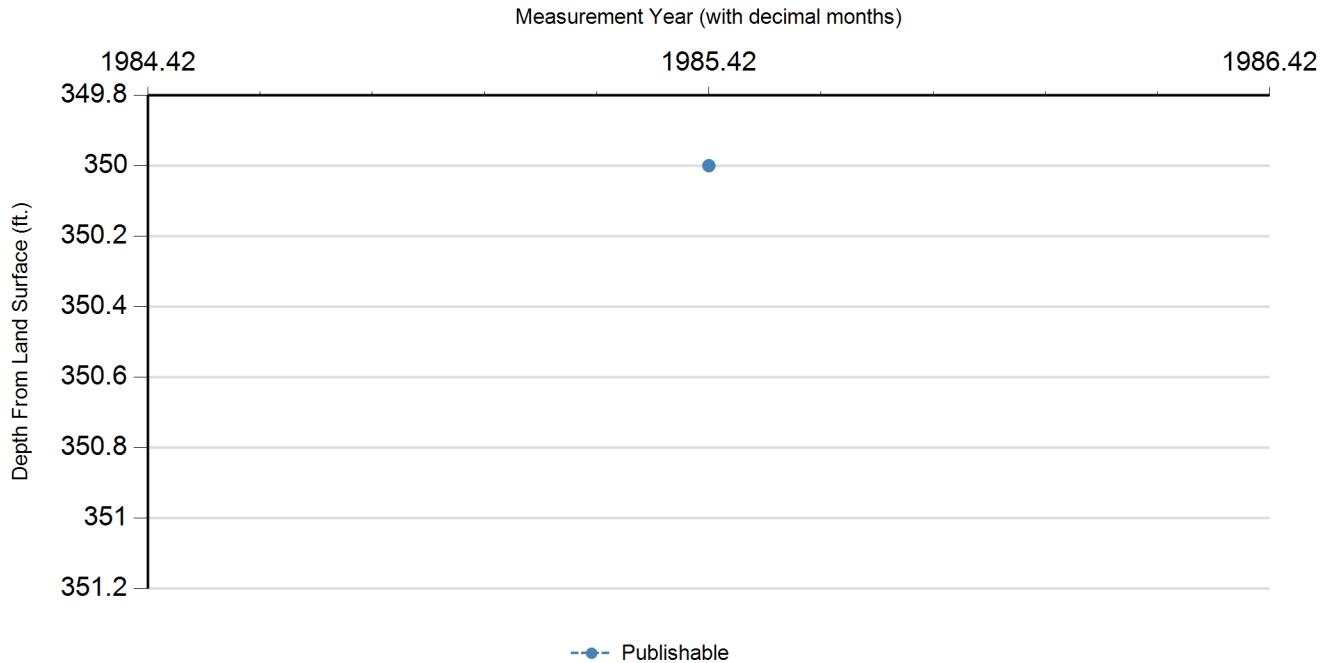
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 6/3/1985 | | 350 | | 818 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis - No Data Available

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| | |
|---|--------------------------------|
| State Well Number | 5849401 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.207223 |
| Latitude (degrees minutes seconds) | 30° 12' 26" N |
| Longitude (decimal degrees) | -97.963612 |
| Longitude (degrees minutes seconds) | 097° 57' 49" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1115 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 568 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 0/0/1967 |
| Drilling Method | Cable Tool |
| Borehole Completion | Open Hole |

| | |
|---|---------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Unused |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Ernest Kuhnel |
| Driller | Dick Sanders |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 9/14/1999 |
| Last Update Date | 3/4/2020 |

Remarks Reported yield 15 GPM with 30 feet drawdown after pumping 2 hours in 1967. Specific capacity 0.5.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 11/20/1968 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|-------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 351 | mg/L as CaCO 3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 428.34 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 222 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 30 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.7 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 928 | mg/L as CaCO 3 | |
| 01045 | IRON, TOTAL (UG/L AS FE) | | 300 | ug/L | |
| 00920 | MAGNESIUM (MG/L) | | 91 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 2 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.2 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 13 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.26 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 4 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 18 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2160 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 570 | mg/L as SO4 | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1160 | mg/L | |

Water Quality Analysis

Sample Date: 10/29/1970 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 341 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 416.14 | mg/L | |
| 01020 | BORON, DISSOLVED (UG/L AS B) | | 700 | ug/L | |
| 00910 | CALCIUM (MG/L) | | 227 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 27 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.8 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 957 | mg/L as CaCO ₃ | |
| 01045 | IRON, TOTAL (UG/L AS FE) | | 8400 | ug/L | |
| 00920 | MAGNESIUM (MG/L) | | 95 | mg/L | |
| 01055 | MANGANESE, TOTAL (UG/L AS MN) | < | 50 | ug/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | < | 0.4 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.2 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 8 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 9 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.24 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 3 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 17 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2184 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 570 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1161 | mg/L | |

Water Quality Analysis

Sample Date: 9/14/1999 **Sample Time:** 1045 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 39086 | ALKALINITY FIELD DISSOLVED AS CaCO ₃ | | 291 | mg/L as CaCO ₃ | |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 281 | mg/L as CaCO ₃ | |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | < | 4 | ug/L | |
| 01095 | ANTIMONY, DISSOLVED (UG/L AS SB) | < | 1 | ug/L | |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | < | 2 | ug/L | |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | | 9.38 | ug/L | |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | < | 1 | ug/L | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 342.92 | mg/L | |
| 01020 | BORON, DISSOLVED (UG/L AS B) | | 410 | ug/L | |
| 71870 | BROMIDE, DISSOLVED, (MG/L AS BR) | | 0.4 | mg/L | |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | < | 1 | ug/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | | 499 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 35.2 | mg/L | |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | < | 1 | ug/L | |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | | 1.52 | ug/L | |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | < | 2 | ug/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 1698 | mg/L as CaCO ₃ | |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | | 119 | ug/L | |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | < | 1 | ug/L | |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | | 41.5 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 106 | mg/L | |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | | 10.6 | ug/L | |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | | 1.23 | ug/L | |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | | 54.2 | ug/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 0.51 | mg/L as NO ₃ | |
| 00631 | NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N) | | 0.114 | mg/L as N | |

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-401**

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|--------------------|------------|
| 00400 | PH (STANDARD UNITS), FIELD | | 6.69 | SU | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 9.38 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | < | 4 | ug/L | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 12 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.25 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 2 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | | 23.1 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2750 | MICR | |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | | 15400 | ug/L | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 1510 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 23.9 | C | |
| 01057 | THALLIUM, DISSOLVED (UG/L AS TL) | < | 1 | ug/L | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 2381 | mg/L | |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | < | 1 | ug/L | |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | | 26.3 | ug/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|-------------------------------|
| State Well Number | 5849402 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.204167 |
| Latitude (degrees minutes seconds) | 30° 12' 15" N |
| Longitude (decimal degrees) | -97.972778 |
| Longitude (degrees minutes seconds) | 097° 58' 22" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1180 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 495 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 4/18/1962 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|---------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | C.A. Sears |
| Driller | Roy A. Farrer Drilling Co. |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/19/1998 |
| Last Update Date | 10/19/1998 |

Remarks Open hole from 17 to 495 ft. Reported yield 15 GPM with 25 feet drawdown. Specific capacity 0.6.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

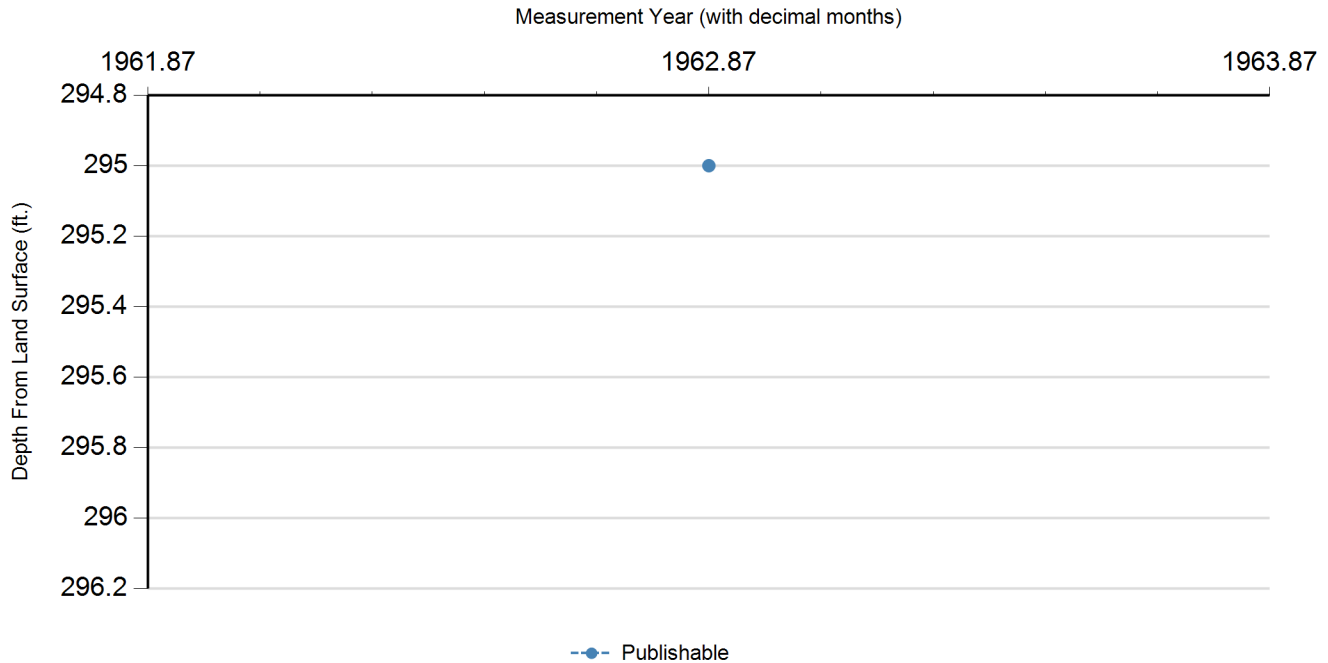
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|------------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|------------|-----------|----------|
| P | 11/18/1962 | | 295 | | 885 | 1 | Texas Water Development Board | Steel Tape | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 1/8/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: yard faucet - on 20 min.

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 367 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 447.87 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 123 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 17 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.9 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 594 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 70 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 2 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.3 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 0 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 12 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.23 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 4 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 13 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1287 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 205 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 19 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 665 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|--|
| State Well Number | 5849403 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.208334 |
| Latitude (degrees minutes seconds) | 30° 12' 30" N |
| Longitude (decimal degrees) | -97.9725 |
| Longitude (degrees minutes seconds) | 097° 58' 21" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRSU - Glen Rose Limestone, Upper Member |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1190 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 400 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 0/0/1947 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Centrifugal Pump |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | C.A. Sears |
| Driller | Glass and Tucker, Inc |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 8/6/1990 |
| Last Update Date | 4/20/1994 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 1/8/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone, Upper Member

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|-------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 297 | mg/L as CaCO 3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 362.44 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 85 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 15 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 0.4 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 323 | mg/L as CaCO 3 | |
| 00920 | MAGNESIUM (MG/L) | | 27 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 7.2 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.4 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 0 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 10 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.17 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 4 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 7 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 652 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 12 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 19 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 341 | mg/L | |

Water Quality Analysis

Sample Date: 6/24/1977 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone, Upper Member

Analyzed Lab: Texas Department of Health

Reliability: From well not sufficiently pumped; not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 338 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 412.48 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 92 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 25 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 0.2 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 361 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 32 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 5.1 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.7 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 11 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.34 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 8 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 15 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 774 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 19 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 23 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 402 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|--|
| State Well Number | 5849408 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.207778 |
| Latitude (degrees minutes seconds) | 30° 12' 28" N |
| Longitude (decimal degrees) | -97.973889 |
| Longitude (degrees minutes seconds) | 097° 58' 26" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 219SLGH - Sligo and Hosston Formations |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1193 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 950 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 10/28/1986 |
| Drilling Method | Air Rotary |
| Borehole Completion | Perforated or Slotted |

| | |
|---|---------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | TxDOT |
| Driller | Associated Drilling |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/19/1998 |
| Last Update Date | 4/1/2010 |

Remarks Owner's #1 well. Measured yield 102 GPM with 73 feet drawdown after pumping 36 hours in 1986. Cemented from 0 to 500 feet. Spec. cap. 1.4.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 11 | Blank | Steel | | | 0 | 50 |
| 9 | Blank | Steel | | | 0 | 950 |
| 10 | Open Hole | | | | 750 | 950 |

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

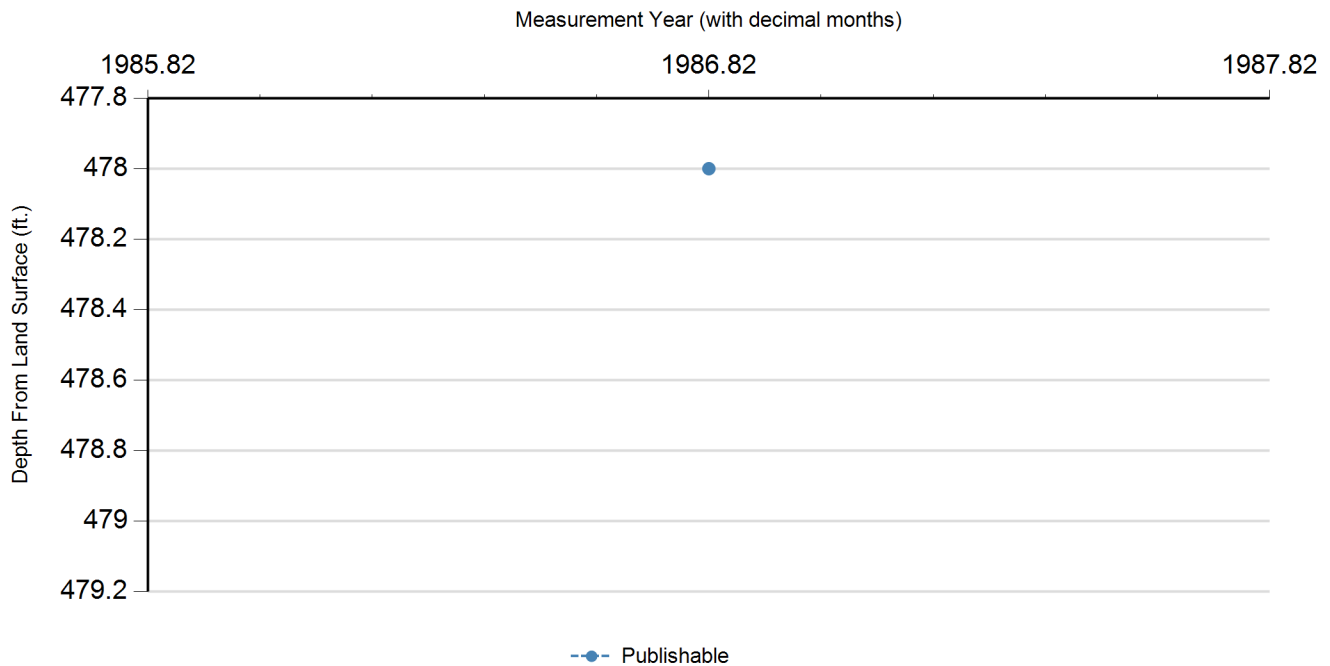
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 11/1/1986 | | 478 | | 715 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 11/6/1986 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Registered Water Well Driller

Sampled Aquifer: Sligo and Hosston Formations

Analyzed Lab: Misc. Industrial Lab

Reliability:

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 225 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 274.58 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 145 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 40 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 1.4 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 773 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 100 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | < | 0.1 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 6.9 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.25 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 18 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 80 | mg/L | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 650 | mg/L as SO ₄ | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1151 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|-----------------------------|
| State Well Number | 5849409 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.206389 |
| Latitude (degrees minutes seconds) | 30° 12' 23" N |
| Longitude (decimal degrees) | -97.974167 |
| Longitude (degrees minutes seconds) | 097° 58' 27" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 217HSTN - Hosston Formation |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1175 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 960 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 9/1/1989 |
| Drilling Method | Air Rotary |
| Borehole Completion | Open Hole |

| | |
|---|---|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | TxDOT |
| Driller | I.T.Corp. Lee Gebbert |
| Other Data Available | Drillers Log; Electric Log; Geologists or Sample; Power-Yield Test; Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/19/1998 |
| Last Update Date | 10/19/1998 |

| | |
|----------------|--|
| Remarks | Measured yield 21 GPM with 22 feet drawdown in 1989. Cemented from 0 to 807 feet. Specific capacity 0.9. |
|----------------|--|

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 8 | Blank | Steel | | | 0 | 806 |
| 12 | Open Hole | | | | 806 | 850 |
| 8 | Open Hole | | | | 850 | 960 |

Well Tests - No Data

Lithology - No Data

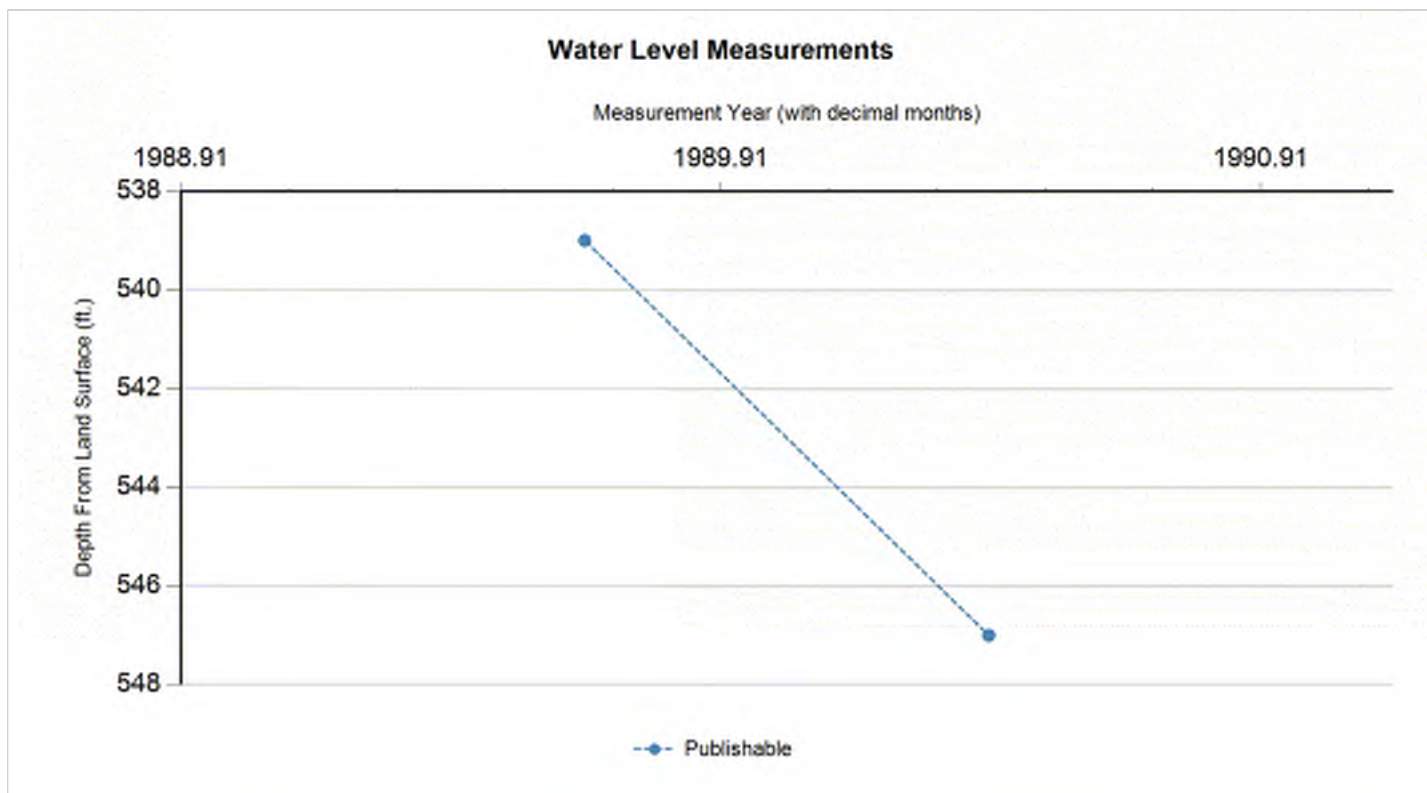
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------------|-----------|----------|
| P | 9/1/1989 | | 539 | | 636 | 1 | Registered Water Well Driller | Unknown | | |
| P | 5/29/1990 | | 547 | 8.00 | 628 | 1 | Texas Water Development Board | Electric Line | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 9/7/1989 **Sample Time:** 0930 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hosston Formation

Analyzed Lab: Texas Department of Health

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 39086 | ALKALINITY FIELD DISSOLVED AS CaCO ₃ | | 254 | mg/L as CaCO ₃ | |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 280 | mg/L as CaCO ₃ | |
| 01503 | ALPHA, DISSOLVED (PC/L) | | 3.2 | PC/L | 2.1 |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | < | 20 | ug/L | |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | < | 10 | ug/L | |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | < | 20 | ug/L | |
| 03503 | BETA, DISSOLVED (PC/L) | | 17 | PC/L | 6 |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 341.7 | mg/L | |
| 01020 | BORON, DISSOLVED (UG/L AS B) | | 650 | ug/L | |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | < | 10 | ug/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | | 168 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 39 | mg/L | |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | < | 20 | ug/L | |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | < | 20 | ug/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 0.5 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 942 | mg/L as CaCO ₃ | |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | | 256 | ug/L | |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | < | 50 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 121 | mg/L | |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | < | 20 | ug/L | |
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | < | 0.2 | ug/L | |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | | 0.02 | mg/L as N | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 0.08 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.01 | SU | |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | < | 0.01 | mg/L as P | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 20 | mg/L | |

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-409**

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|--------------------|------------|
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | < | 2 | ug/L | |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | | 21 | mg/L as SIO2 | |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | < | 10 | ug/L | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.08 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 15 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | | 75 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1810 | MICR | |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | | 22200 | ug/L | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 734 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 26 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1369 | mg/L | |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | | 1030 | ug/L | |

Water Quality Analysis

Sample Date: 6/30/1994 **Sample Time:** 1500 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hosston Formation

Analyzed Lab: Texas Department of Health

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 39086 | ALKALINITY FIELD DISSOLVED AS CaCO3 | | 280 | mg/L as CaCO3 | |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 274 | mg/L as CaCO3 | |
| 01503 | ALPHA, DISSOLVED (PC/L) | | 4.8 | PC/L | 3 |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | < | 20 | ug/L | |
| 01095 | ANTIMONY, DISSOLVED (UG/L AS SB) | | 2.7 | ug/L | |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | < | 1 | ug/L | |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | | 18.2 | ug/L | |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | < | 2 | ug/L | |
| 03503 | BETA, DISSOLVED (PC/L) | | 10 | PC/L | 4 |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 334.37 | mg/L | |
| 71870 | BROMIDE, DISSOLVED, (MG/L AS BR) | | 0.11 | mg/L | |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | < | 0.5 | ug/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | | 120 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 31 | mg/L | |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | < | 10 | ug/L | |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | < | 10 | ug/L | |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | < | 14.9 | ug/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 0.53 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 667 | mg/L as CaCO3 | |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | | 673 | ug/L | |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | < | 5 | ug/L | |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | | 99 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 85 | mg/L | |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | | 13.7 | ug/L | |
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | < | 0.13 | ug/L | |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | < | 20 | ug/L | |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | | 13.6 | ug/L | |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | < | 0.01 | mg/L as N | |

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-409**

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|--------------|------------|
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | < | 0.04 | mg/L as NO3 | |
| 00613 | NITRITE NITROGEN, DISSOLVED (MG/L AS N) | < | 0.01 | mg/L as N | |
| 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | | 0.77 | mg/L as N | |
| 00623 | NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N) | | 1.1 | mg/L as N | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.14 | SU | |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | | 0.01 | mg/L as P | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 17 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | < | 4 | ug/L | |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | | 22 | mg/L as SIO2 | |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | < | 10 | ug/L | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.16 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 18 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | | 68 | mg/L | |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | | 16400 | ug/L | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 535 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 25.6 | C | |
| 01057 | THALLIUM, DISSOLVED (UG/L AS TL) | < | 2 | ug/L | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1059 | mg/L | |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | < | 10 | ug/L | |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | | 616 | ug/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<https://www.twdb.texas.gov/groundwater/data/gwdb rpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

STATE OF TEXAS WELL REPORT for Tracking #10252

Owner: **MARK MULLER**

Owner Well #: **001**

Address: **15317 OZONE PLACE
AUSTIN, TX 78728**

Grid #: **58-49-1**

Well Location: **LOT 1 OAK RUN ESTATES
AUSTIN, TX 78737**

Latitude: **30° 13' 00" N**

Longitude: **097° 58' 02" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/15/2002**

Drilling End Date: **7/15/2002**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 100 |
| | 6.5 | 100 | 886 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | 12 |

Seal Method: **PRESSURE CEMENTED**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **470 ft. below land surface on 2002-07-24** Measurement Method: **Unknown**

Packers: **PLASTIC 105
PLASTIC 700**

Type of Pump: **Submersible**

Pump Depth (ft.): **700**

Well Tests: **Jetted** **Yield: 20 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **SCOTT WILDER** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 2 | TOPSOIL |
| 2 | 15 | CALICHE |
| 15 | 360 | GREY LIMESTONE |
| 360 | 420 | GREY ROCK |
| 420 | 635 | GREY ROCK & TAN SANDSTONE |
| 635 | 663 | BLUE SHALE, CLAY & TAN & BROWN ROCK |
| 663 | 672 | BLUE CLAY |
| 672 | 690 | BLUE CLAY & SHALE |
| 690 | 736 | HARD TAN ROCK |
| 736 | 756 | TAN & BROWN SANDSTONE/FIRM |
| 756 | 806 | TAN & BROWN SANDSTONE/LOOSE |
| 806 | 886 | BROWN SANDY CLAY |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------|------------------------------|
| 4.5 | NEW | PLASTIC | 0 - 746 |
| 4.5 | NEW | SCREEN MFG. | 746 - 806 |
| 4.5 | NEW | PLASTIC | 806 - 886 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #10253

Owner: **WALL TO WALL CONSTRUCTION**

Owner Well #: **001**

Address: **635 WESTFRONT ST. SUITE 100
HUTTO, TX 78634**

Grid #: **58-49-1**

Well Location: **LOT 20 SOUTHWEST OAKS
DRIPPING SPRINGS, TX 78620**

Latitude: **30° 13' 54" N**

Longitude: **097° 58' 32" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/23/2002**

Drilling End Date: **7/23/2002**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 10 |
| | 6.5 | 10 | 848 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 16 | 10 |

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **410 ft. below land surface on 2002-07-24** Measurement Method: **Unknown**

Packers: **PLASTIC 16
PLASTIC 730**

Type of Pump: **Submersible**

Pump Depth (ft.): **760**

Well Tests: **Jetted** **Yield: 20-25 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **SCOTT WILDER** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|---|
| 0 | 2 | TOPSOIL |
| 2 | 20 | CALICHE |
| 20 | 560 | GREY LIMESTONE |
| 560 | 575 | GREY ROCK |
| 575 | 615 | GREY ROCK & TAN SANDSTONE W/B |
| 615 | 638 | BLUE SHALE & CLAY W/B |
| 638 | 647 | TAN SANDSTONE |
| 647 | 656 | BLUE CLAY & SHALE |
| 656 | 730 | SAND-TAN & BLUE |
| 730 | 836 | TAN & BROWN SANDSTONE & SAND |
| 836 | 848 | ROCK & CLAY |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------|------------------------------|
| 4.5 | NEW | PLASTIC | 0 - 776 |
| 4.5 | NEW | SCREEN MFG. | 776 - 836 |
| 4.5 | NEW | PLASTIC | 836 - 848 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #11681

Owner: **Michael & Bobbie Pollard**

Owner Well #: **No Data**

Address: **11008 South Bay Lane
Austin, TX 78739**

Grid #: **58-49-1**

Well Location: **12501 Fitzhugh Road
Austin, TX 78736**

Latitude: **30° 13' 36" N**

Longitude: **097° 58' 48" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/6/2002**

Drilling End Date: **8/7/2002**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 120 |
| | 6.75 | 120 | 800 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 120 | 35 |

Seal Method: **pressure cementing**

Distance to Property Line (ft.): **No Data**

Sealed By: **ADC**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **422 ft. below land surface on 2002-08-12** Measurement Method: **Unknown**

Packers: **Neoprene/ burlap**

Type of Pump: **Submersible**

Pump Depth (ft.): **660**

Well Tests: **Estimated** Yield: **75 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 660-800 | trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Company**

**P.O. Box 1060
Manchaca, TX 78652**

Driller Name: **Byron Benoit**

License Number: **1955**

Apprentice Name: **Byron Benoit**

Apprentice Number: **1955**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 1 | top soil |
| 1 | 30 | broken tan lime with caliche |
| 30 | 60 | gray lime |
| 60 | 120 | broken gray lime |
| 120 | 160 | Broken tan lime |
| 160 | 400 | gray lime |
| 400 | 480 | gray lime with shale |
| 480 | 620 | Broken tan and gray lime |
| 620 | 660 | shale |
| 660 | 700 | tan sandstone |
| 700 | 760 | broken dark red sandstone |
| 760 | 800 | broken tan with white sandstone |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|---------------------------------------|-----------------|-------------|------------------------------|
| 4.5 N Plastic -2 to 800 SDR 17 | | | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #29969

| | | | |
|----------------|---|---------------|---------------------------------|
| Owner: | PARTNERS IN BUILDING | Owner Well #: | 005 |
| Address: | 1803 RR 620 N. LAKEWAY, TX 78734 | Grid #: | 58-49-1 |
| Well Location: | 11500 SOUTHWEST OAKS AUSTIN, TX | Latitude: | 30° 13' 10" N |
| Well County: | Travis | Longitude: | 097° 58' 29" W |
| | | Elevation: | 1075 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **11/3/2003** Drilling End Date: **11/3/2003**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 10 | 0 | 13 |
| | 7 | 13 | 840 |

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|-------------|
| Filter Pack Intervals: | 740 | 840 | Gravel | |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 10 | 12 CEMENT |
| | 725 | 740 | 2 HOLE PLUG |

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **GREG SVETLIK**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **480 ft. below land surface on 2003-11-05** Measurement Method: **Unknown**

Packers: **PLASTIC 10**

Type of Pump: **Submersible** Pump Depth (ft.): **700**

Well Tests: **Jetted** Yield: **30 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|------------------------------|
| 0 | 1 | TOPSOIL |
| 1 | 9 | CALICHE |
| 9 | 307 | GREY LIMESTONE |
| 307 | 314 | GREY SHALE |
| 314 | 322 | GREY LIMESTONE |
| 322 | 340 | BLUE LIMESTONE |
| 340 | 390 | GREY LIMESTONE |
| 390 | 470 | LIGHT GREY LIMESTONE |
| 470 | 487 | GREY LIMESTONE |
| 487 | 495 | TIGHT SAND |
| 495 | 560 | LIGHT GREY LIMESTONE |
| 560 | 566 | GREY ROCK |
| 566 | 585 | WHITE ROCK W/B 25 GPM |
| 585 | 625 | GREY ROCK |
| 625 | 632 | GREY SHALE |
| 632 | 657 | GREY ROCK |
| 657 | 662 | GREY SHALE |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------|------------------------------|
| 4.5 | NEW | PLASTIC | 0 - 770 |
| 4.5 | NEW | SCREEN MFG. | 770 - 830 .10 |
| 4.5 | NEW | PLASTIC | 830 - 840 |

| | | |
|-----|-----|-----------------------------|
| 662 | 690 | GREY ROCK |
| 690 | 745 | LIGHT GREY LIMESTONE |
| 745 | 762 | RED & GREY SANDSTONE |
| 762 | 766 | RED SHALE |
| 766 | 840 | RED SANDSTONE W/B 30 GPM |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #54800

Owner: **PEDRO TERROBA**

Owner Well #: **No Data**

Address: **41 TALL OAK TRAIL
AUSTIN, TX 78737**

Grid #: **58-49-1**

Well Location: **#6 TALL OAK TRAIL
AUSTIN, TX 78737**

Latitude: **30° 12' 56" N**

Longitude: **097° 59' 21" W**

Well County: **Hays**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/17/2005**

Drilling End Date: **2/17/2005**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 8.625 | 0 | 50 |
| 6.5 | 50 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 50 | 10 |

Seal Method: **Slurry**

Distance to Property Line (ft.): **N/A**

Sealed By: **C. T. D.**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **5 RUBBER & BURLAP 50',300',640'**

Type of Pump: **Submersible**

Well Tests: **Unknown** **Yield: 60-70 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 60 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **updated lat/long by TWDB on 2/14/08 - BA**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------|
| 0 | 1 | TOP SOIL |
| 1 | 12 | CALICHE |
| 12 | 13 | BLUE LIMESTONE |
| 13 | 35 | GRAY W/WHITE LIMESTONE |
| 35 | 330 | GRAY LIMESTONE |
| 330 | 390 | GRAY W/TAN LIMESTONE |
| 390 | 510 | GRAY LIMESTONE |
| 510 | 540 | TAN W/GRAY LIMESTONE |
| 540 | 550 | WHITE W/GRAY LIMESTONE |
| 550 | 560 | WHITE W/TAN/BROWN LIME |
| 560 | 590 | GRAY/TAN LIMESTONE |
| 590 | 645 | HAMMID CLAY LIMESTONE |
| 645 | 660 | HAMMID CLAY W/RED |
| 660 | 680 | GRAY/TAN LIMESTONE |
| 680 | 705 | GRAY LIMESTONE |
| 705 | 715 | GRAY/RED W/TAN LIMESTONE |
| 715 | 760 | RED W/TAN SANDSTONE |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-----------|-----------------------|
| 5" | OD NEW | PVC SDR17 | +3 TO 850' .025 |

| | | |
|-----|-----|---------------|
| 760 | 770 | RED LIMESTONE |
| 770 | 850 | TRINITY SAND |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #54933

Owner: **JAKE COSTIN**

Owner Well #: **No Data**

Address: **8524 AXIS DRIVE
AUSTIN, TX 78749**

Grid #: **58-49-1**

Well Location: **11204 SOUTHWEST OAKS
AUSTIN, TX 78737**

Latitude: **30° 13' 02" N**

Longitude: **097° 58' 10" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/16/2005**

Drilling End Date: **2/16/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.625 | 0 | 30 |
| | 6.5 | 30 | 870 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 30 | 6 |

Seal Method: **Slurry**

Distance to Property Line (ft.): **N/A**

Sealed By: **C. T. D.**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **5 RUBBER & BURLAP 30',350',690',710',730'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 50 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 80 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS**

License Number: **4227**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------------|
| 0 | 1 | TOP SOIL |
| 1 | 25 | CALICHE |
| 25 | 28 | BLUE LIMESTONE |
| 28 | 310 | GRAY LIMESTONE |
| 310 | 340 | GRAY/TAN LIMESTONE |
| 340 | 490 | GRAY LIMESTONE |
| 490 | 540 | TAN LIMESTONE |
| 540 | 600 | GRAY LIMESTONE |
| 600 | 630 | TAN/WHITE GRAY LIMESTONE |
| 630 | 660 | GRAY LIMESTONE |
| 660 | 705 | HAMMID CLAY LIMESTONE |
| 705 | 720 | HAMMID CLAY & RED LIMESTONE |
| 720 | 765 | GRAY/TAN LIMESTONE |
| 765 | 820 | RED SANDSTONE |
| 820 | 870 | TRINITY SANDSTONE |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-----------|-----------------------|
| 5" | OD NEW | PVC SDR17 | +3 TO 870 .025 |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #63065

| | | | |
|----------------|--|---------------|-----------------------|
| Owner: | SCOTT HEMPHILL | Owner Well #: | No Data |
| Address: | PMB 122, 12400 HWY. 71 W.,STE. AUSTIN, TX 78738 | Grid #: | 58-49-1 |
| Well Location: | 12400 HWY 71 PMB# 122 AUSTIN, TX 78738 | Latitude: | 30° 13' 17" N |
| Well County: | Travis | Longitude: | 097° 58' 12" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **5/2/2005**

Drilling End Date: **5/2/2005**

| Borehole: | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| | 8.625 | 0 | 40 |
| | 6.125 | 40 | 890 |

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

| Annular Seal Data: | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| | 0 | 40 | 6 CEMENT |
| | 0 | 40 | 3 VOLCLAY |

Seal Method: **Slurry**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **5 BURLAP,PVC 40',440',680',700',720'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 50 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 65 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS**

License Number: **4227**

Comments: **Amended 8/2/05 Ref.# 1855**

Report Amended on by Request #1855

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|------------------------|
| 0 | 1 | TOP SOIL-ROCK |
| 1 | 18 | CALICHE |
| 18 | 20 | BLUE LIMESTONE |
| 20 | 270 | GRAY LIMESTONE |
| 270 | 290 | GRAY W/TAN LIMESTONE |
| 290 | 340 | TAN LIMESTONE |
| 340 | 370 | GRAY LIMESTONE |
| 370 | 390 | GRAY W/STRIPS OF CLAY |
| 390 | 460 | GRAY LIMESTONE |
| 460 | 570 | GRAY/TAN LIMESTONE |
| 570 | 660 | GRAY LIMESTONE |
| 660 | 695 | HAMMID CLAY |
| 695 | 710 | HAMMID CLAY W/RED CLAY |
| 710 | 720 | GRAY LIMESTONE |
| 720 | 740 | GRAY/TAN LIMESTONE |
| 740 | 790 | TAN/RED SANDSTONE |
| 790 | 890 | RED SANDSTONE |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-----------|-----------------------|
| 5" | OD N | PVC SDR17 | +3 TO 890 .020 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #75848

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | CHARLES CHRISTAL | Owner Well #: | No Data |
| Address: | 10510 TENNETA HOUSTON, TX 77099 | Grid #: | 58-49-1 |
| Well Location: | 11097 FITZHUGH RD. AUSTIN, TX 78737 | Latitude: | 30° 13' 06" N |
| Well County: | Travis | Longitude: | 097° 58' 03" W |
| | | Elevation: | 1148 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/21/2005** Drilling End Date: **12/22/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 10 |
| | 6.75 | 10 | 630 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 10 | 12 CEMENT |

Seal Method: **SLURRIED & POURED**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **539 ft. below land surface on 2005-12-23** Measurement Method: **Unknown**

Packers: **NEOPRENE 13
NEOPRENE 590**

Type of Pump: **Submersible** Pump Depth (ft.): **610**

Well Tests: **Jetted** Yield: **20 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **BOBBY ROBERTS** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 1 | TOPSOIL |
| 1 | 12 | CALICHE |
| 12 | 25 | TAN SHALE |
| 25 | 65 | GREY CLAY |
| 65 | 410 | GREY LIMESTONE |
| 410 | 485 | GREY & WHITE ROCK |
| 485 | 595 | GREY LIMESTONE |
| 595 | 630 | GREY & WHITE ROCK W/B 20 GPM TDS 1000 |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------|------------------------------|
| 4.5 | NEW | PLASTIC | 0 - 595 |
| 4.5 | NEW | SCREEN MFG. | 595 - 630 .050 |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #75955

Owner: **Austin Outline**

Owner Well #: **No Data**

Address: **P. O. Box 91956
Austin, TX 78709**

Grid #: **58-49-1**

Well Location: **Off Fitzhugh and Long Branch
Austin, TX**

Latitude: **30° 13' 30" N**

Longitude: **097° 58' 30" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/29/2004**

Drilling End Date: **1/29/2004**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 50 |
| | 6.25 | 50 | 710 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 40 | 8 |

Seal Method: **Slurry**

Distance to Property Line (ft.): **No Data**

Sealed By: **C.T.D.**

Distance to Septic Field or other
concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Well Drilled First**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **3 Burlap, PVC 40',560',580'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 40 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 40 | Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Central Texas Drilling, Inc.**
2520 Highway 290 West
Dripping Springs, TX 78620

Driller Name: **Aaron Glass**

License Number: **4227**

Comments: **\$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------------|
| 0 | 2 | Top Soil |
| 2 | 20 | Caliche |
| 20 | 22 | Blue Limestone |
| 22 | 350 | Gray Limestone |
| 350 | 351 | White Limestone |
| 351 | 410 | Gray Limestone w/Tan Limestone |
| 410 | 470 | Tan Limestone |
| 470 | 510 | Gray Limestone |
| 510 | 540 | Hammid Clay |
| 540 | 570 | Gray/Red Clay |
| 570 | 600 | Gray Limestone |
| 600 | 710 | Trinity Sand (Red) |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------|-----------------------|
| 5 OD | New | PVC -2 710 SDR17 | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #86207

Owner: **ALBERT LEDESMA**

Owner Well #: **No Data**

Address: **11205 Southwest Oaks
Austin, TX 78737**

Grid #: **58-49-1**

Well Location: **11205 Southwest Oaks
Austin, TX 78737**

Latitude: **30° 13' 02" N**

Longitude: **097° 58' 20" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/17/2006**

Drilling End Date: **4/17/2006**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6 | 100 | 880 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | 26 |

Seal Method: **Pressure Tremie**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **6 PVC & Burlap at 100', 400', 490', 670', 720', 740'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 20 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 45 | Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Western Water Wells**
500 Southland Drive
Burnet, TX 78611

Driller Name: **Frank Glass**

License Number: **1313**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|------------------------------|
| 0 | 1 | Top soil |
| 1 | 15 | Caliche |
| 15 | 95 | Blue lime |
| 95 | 270 | Gray lime |
| 270 | 300 | Brown lime |
| 300 | 415 | Gray & brown lime |
| 415 | 425 | Brown lime |
| 425 | 590 | Gray & brown |
| 590 | 640 | White & tan lime |
| 640 | 670 | Gray lime |
| 670 | 720 | Hammond |
| 720 | 780 | Brown sandstone |
| 780 | 880 | Trinity |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|----------------|------------------------------|
| 4.5" | New | Plastic | +2-880 SDR 17 |

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #91995

Owner: **Charles Gaddy, Jr.**

Owner Well #: **No Data**

Address: **19 Tall Oaks Trail
Austin, TX 78737**

Grid #: **58-49-1**

Well Location: **19 Tall Oaks Trail
Austin, TX 78737**

Latitude: **30° 12' 59" N**

Longitude: **097° 59' 17" W**

Well County: **Hays**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/29/2006**

Drilling End Date: **8/29/2006**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 30 |
| | 6.5 | 30 | 905 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 30 | 7 of Portland |

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Neoprene 700', 680', 300', 30'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 55-60 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 715-880 | Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------|
| 0 | 23 | Caliche |
| 23 | 70 | Blue Limestone |
| 70 | 280 | Light Grey-Tan Limestone |
| 280 | 345 | Clay |
| 345 | 495 | Tan Limestone |
| 495 | 545 | White Limestone |
| 545 | 595 | Grey Limestone |
| 595 | 655 | Clay |
| 655 | 715 | Grey Sandstone |
| 715 | 740 | Red Sand |
| 740 | 770 | Red Sandstone-Clay |
| 770 | 800 | Sand |
| 800 | 840 | Red Sandstone |
| 840 | 880 | Gravel-Sand |
| 880 | 900 | Tan Limestone |
| 900 | 905 | Blue Clay |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|--------------|----------|-------------|-----------------------|
| 4.5" (5" OD) | New | PVC | +2' to 740' SDR17 |
| 4.5" (5" OD) | New | Slotted PVC | 740' to 760' .035 |
| 4.5" (5" OD) | New | PVC | 760' to 780' SDR17 |
| 4.5" (5" OD) | New | Slotted PVC | 780' to 800' .035 |
| 4.5" (5" OD) | New | PVC | 800' to 840' SDR17 |
| 4.5" (5" OD) | New | Slotted PVC | 840' to 880' .035 |
| 4.5" (5" OD) | New | PVC | 880' to 905' SDR17 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #93834

Owner: **CARRELL HOMES**

Owner Well #: **No Data**

Address: **12016 HWY. 290 WEST, STE. 5
AUSTIN, TX 78737**

Grid #: **58-49-1**

Well Location: **16 TALL OAKS TRAIL
AUSTIN, TX 78737**

Latitude: **30° 12' 43" N**

Longitude: **097° 59' 15" W**

Well County: **Hays**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/26/2006**

Drilling End Date: **6/26/2006**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.625 | 0 | 100 |
| | 6.5 | 100 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | 11 CEMENT |
| | 0 | 100 | 17 VOLCLAY |

Seal Method: **PRESSURE TRIMMY
CEMENTING**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **506.4 ft. below land surface on 2006-06-29** Measurement Method: **Unknown**

Packers: **7 BURLAP,PVC,RUBBER 100',120',600',620'
640',660',680'**

Type of Pump: **Submersible**

Well Tests: **Jetted** Yield: **40 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 65 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **updated lat/long by TWDB on 2/15/08 - BA**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|------------------------|
| 0 | 2 | TOP SOIL |
| 2 | 18 | CALICHE |
| 18 | 22 | BLUE LIMESTONE |
| 22 | 230 | GRAY LIMESTONE |
| 230 | 310 | GRAY/TAN LIMESTONE |
| 310 | 420 | GRAY LIMESTONE |
| 420 | 490 | TAN LIMESTONE |
| 490 | 600 | GRAY/TAN SANDSTONE |
| 600 | 610 | GRAY LIMESTONE |
| 610 | 650 | HAMMID CLAY |
| 650 | 665 | HAMMID CLAY W/RED CLAY |
| 665 | 710 | GRAY/TAN LIMESTONE |
| 710 | 740 | RED SANDSTONE |
| 740 | 780 | RED/GRAY LIMESTONE |
| 780 | 840 | SANDSTONE W/GRAVEL |
| 840 | 850 | RED/TAN LIMESTONE |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------|-----------------------|
| 5" | OD | N PVC SDR17 | +3 TO 850 |
| 5" | OD | N PVC SDR17 SLOT | 720 TO 740 .032 |
| 5" | OD | N PVC SDR17 SLOT | 760 TO 780 .032 |
| 5" | OD | N PVC SDR17 SLOT | 800 TO 840 .032 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #126859

Owner: **FRANK CAPPARELLI**

Owner Well #: **No Data**

Address: **9107 BARRY KNOLL ST.
AUSTIN, TX 78729**

Grid #: **58-49-1**

Well Location: **18 TALL OAKS TRAIL
AUSTIN, TX 78737**

Latitude: **30° 12' 59" N**

Longitude: **097° 59' 24" W**

Well County: **Hays**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/25/2007**

Drilling End Date: **9/25/2007**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 50 |
| | 6.5 | 50 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 60 | 8 CEMENT |
| | 0 | 60 | 7 VOLCLAY |

Seal Method: **Slurry**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **486.6 ft. below land surface on 2007-08-29**

Measurement Method: **Unknown**

Packers: **7 BURLAP,PVC,RUBBER 60',100',620',640',660',
680',780'**

Type of Pump: **CASED**

Well Tests: **Jetted** **Yield: 50 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 80 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS**

License Number: **4227**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|------------------------|
| 0 | 2 | TOP SOIL |
| 2 | 18 | CALICHE |
| 18 | 20 | BLUE LIMESTONE |
| 20 | 310 | GRAY LIMESTONE |
| 310 | 490 | GRAY/TAN LIMESTONE |
| 490 | 570 | TAN LIMESTONE |
| 570 | 600 | GRAY/TAN LIMESTONE |
| 600 | 610 | GRAY LIMESTONE |
| 610 | 650 | HAMMIT CLAY |
| 650 | 680 | HAMMIT CLAY W/RED CLAY |
| 680 | 690 | GRAY LIMESTONE |
| 690 | 720 | GRAY/TAN SANDSTONE |
| 720 | 750 | GRAY/TAN/RED SANDSTONE |
| 750 | 760 | RED SAND |
| 760 | 770 | RED SHALE |
| 770 | 850 | RED SAND |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------|-----------------------|
| 5" | OD | N SDR17 PVC | +3 TO 850 |
| 5" | OD | N SDR17 PVC SLOT | 700 TO 760 .032 |
| 5" | OD | N SDR17 PVC SLOT | 800 TO 840 .032 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #129190

| | | | |
|----------------|---|---------------|---------------------------------|
| Owner: | BILLY & PAT SIMPSON | Owner Well #: | No Data |
| Address: | 201 SPANISH OAK TRL DRIPPING SPRINGS, TX 78620 | Grid #: | 58-49-1 |
| Well Location: | 11211 RUTTER LANE AUSTIN, TX 78736 | Latitude: | 30° 13' 20" N |
| | | Longitude: | 097° 57' 52" W |
| Well County: | Travis | Elevation: | 1132 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **11/14/2007** Drilling End Date: **11/14/2007**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 10 | 0 | 12 |
| | 6.75 | 12 | 630 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 6 | 5 |
| | 6 | 12 | 6 |

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **512 ft. below land surface on 2007-11-15** Measurement Method: **Unknown**

Packers: **NEOPRENE 12
NEOPRENE 555
NEOPRENE 560**

Type of Pump: **Submersible** Pump Depth (ft.): **600**

Well Tests: **Jetted** Yield: **20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING INC**
185 ANGELFIRE DR
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR** License Number: **54416**

Apprentice Name: **CESAR RAMOS** Apprentice Number: **57534**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------------|
| 0 | 1 | TOPSOIL |
| 1 | 12 | GRAY ROCK |
| 12 | 510 | GRAY LIMESTONE |
| 510 | 590 | BROWN & GRAY ROCK |
| 590 | 630 | GRAY ROCK W/B 20 GPM TDS 1370 |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------|-----------------------|
| 4.5 | NEW | PLASTIC | 0-560 |
| 4.5 | NEW | SCREEN MFG | 560-630 .050 |

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #165528

| | | | |
|----------------|---|---------------|---------------------------------|
| Owner: | EDDIE SLACK | Owner Well #: | No Data |
| Address: | 12605 FITZHUGH RD AUSTIN, TX 78736 | Grid #: | 58-49-1 |
| Well Location: | 12605 FITZHUGH RD AUSTIN, TX 78736 | Latitude: | 30° 13' 42" N |
| Well County: | Travis | Longitude: | 097° 59' 14" W |
| | | Elevation: | 1066 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/30/2008** Drilling End Date: **12/31/2008**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 10 | 0 | 12 |
| | 6.75 | 12 | 800 |

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 12 | 9 |

Seal Method: **SLURRIED & POURED**

Sealed By: **CESAR RAMOS**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **STEEL TAPE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **452 ft. below land surface on 2009-01-05** Measurement Method: **Unknown**

Packers: **NEOPRENE 12
NEOPRENE 740
NEOPRENE 745**

Type of Pump: **Submersible** Pump Depth (ft.): **700**

Well Tests: **Jetted** Yield: **60 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING INC**
185 ANGELFIRE DR
DRIPPING SPRINGS, TX 78620

Driller Name: **BOBBY ROBERTS**

License Number: **54416**

Apprentice Name: **CESAR RAMOS**

Apprentice Number: **57534**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 7 | SURFACE ROCK |
| 7 | 250 | GREY LIMESTONE |
| 250 | 253 | CAVE |
| 253 | 550 | GREY AND BROWN ROCK |
| 550 | 610 | BLUE SHALE |
| 610 | 655 | BROWN ROCK |
| 655 | 710 | RED SHALE |
| 710 | 730 | RED SANDSTONE |
| 730 | 740 | RED CLAY |
| 740 | 800 | WHITE & BLACK ROCK W/B 60 GPM TDS 1000 |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------|-----------------------|
| 4.5 | NEW | PLASTIC | 0-750 |
| 4.5 | NEW | SCREEN MFG | 750-790 |
| 4.5 | NEW | PLASTIC | 790-800 |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #199651

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | BARRY SCHWARTZ | Owner Well #: | 001 |
| Address: | 1726 W. 11TH ST. AUSTIN, TX 78703 | Grid #: | 58-49-1 |
| Well Location: | 11404 SOUTHWEST OAKS AUSTIN, TX 78737 | Latitude: | 30° 13' 08" N |
| Well County: | Travis | Longitude: | 097° 58' 26" W |
| | | Elevation: | 1122 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **10/19/2009** Drilling End Date: **10/20/2009**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 10 | 0 | 12 |
| | 6.75 | 12 | 870 |

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 6 | 7 CEMENT |
| | 6 | 12 | 5 BENTONITE |

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other
concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **STEEL TAPE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **560 ft. below land surface on 2009-10-21** Measurement Method: **Unknown**

Packers: **1 NEOPRENE 12**
1 NEOPRENE 565 & 568
1 NEOPRENE 690 & 698
1 NEOPRENE 800 & 805

Type of Pump: **Submersible** Pump Depth (ft.): **800**

Well Tests: **Jetted** Yield: **60 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **CESAR RAMOS**

Apprentice Number: **3090**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------------------|
| 0 | 2 | TOPSOIL |
| 2 | 6 | TAN SHALE |
| 6 | 510 | GRAY LIMESTONE |
| 510 | 630 | TAN ROCK W/B 7 GPM TDS 1600 |
| 630 | 690 | BLUE SHALE |
| 690 | 750 | BROWN ROCK W/B 50 GPM TDS 1000 |
| 750 | 770 | RED CLAY |
| 770 | 800 | GRAY ROCK |
| 800 | 810 | RED SANDSTONE |
| 810 | 870 | TAN ROCK W/B 60 GPM TDS 800 |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-------------|-----------------------|
| 4.5 | NEW | PLASTIC | 0 810 |
| 4.5 | NEW | SCREEN MFG. | 810 870 .050 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #216008

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Sparks, Rick | Owner Well #: | Well#1 |
| Address: | 4 Long Creek Drive Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 4 Long Creek Drive Austin, TX 78737 | Latitude: | 30° 13' 00" N |
| Well County: | Hays | Longitude: | 097° 59' 03" W |
| | | Elevation: | 1069 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **4/22/2010** Drilling End Date: **4/29/2010**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.88 | 0 | 800 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 40 | 14portland1hp |
| | 635 | 660 | 3portland1bense |

Seal Method: **Pressure Grout**

Distance to Property Line (ft.): **52**

Sealed By: **Whisenant & Lyle Water
Service Inc.**

Distance to Septic Field or other
concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **358 ft. below land surface on 2010-04-23** Measurement Method: **Unknown**

Packers: **6MIL POLY- 40'**
6MIL POLY/SHALE PACKER- 660'

Type of Pump: **Submersible** Pump Depth (ft.): **680**

Well Tests: **Jetted** Yield: **20+ GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|-------------|
| 680' - 780' | GOOD |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Service Inc**
P.O. Box 525
Dripping Springs, TX 78620

Driller Name: **Martin D Lingle** License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|------------|--------------|----------------------------------|
| 0 | 2 | top soil |
| 2 | 9 | brown limestone |
| 9 | 18 | grey limestone |
| 18 | 95 | grey tan limestone |
| 95 | 110 | tan limestone |
| 110 | 304 | brown grey limestone |
| 304 | 306 | brown limestone fractured |
| 306 | 330 | grey limestone |
| 330 | 400 | brown limestone |
| 400 | 420 | brown grey limestone |
| 420 | 520 | brown limestone fractured |
| 520 | 530 | brown grey limestone |
| 530 | 580 | grey limestone |
| 580 | 610 | grey clay |
| 610 | 640 | grey limestone |
| 640 | 660 | grey tan limestone |
| 660 | 690 | grey brown limestone |
| 690 | 710 | grey red limestone |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|--------------------------|-----------------------|
| 4.5 | N | PVC-SDR17IB | +2'-680' |
| 4.5 | N | PVC-17SLOTTED.085 | 680'-780' |
| 4.5 | N | PVC-SDR17IB | 780'-800' |

| | | |
|-----|-----|--------------|
| 710 | 800 | conglomerate |
|-----|-----|--------------|

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #277708

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Robert Medlin | Owner Well #: | 1 |
| Address: | 11901 Oak Branch Dr. Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 11901 Oak Branch Dr. Austin, TX 78737 | Latitude: | 30° 13' 09" N |
| Well County: | Hays | Longitude: | 097° 58' 59" W |
| | | Elevation: | 1053 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/14/2011** Drilling End Date: **12/19/2011**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 60 | 2h1plg12ptldcmt |

Seal Method: **Pos. displacement**

Sealed By: **Driller**

Distance to Property Line (ft.): **55**

Distance to Septic Field or other
concentrated contamination (ft.): **75**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **490 ft. below land surface on 2011-12-19** Measurement Method: **Unknown**

Packers:

- 6Mil-poly 60**
- 6Mil-poly 180**
- 6Mil-poly 300**
- 6Mil-poly 460**
- 6Mil-poly/ Shale packer 600**
- 6Mil-poly 760**

Type of Pump: **Submersible** Pump Depth (ft.): **740**

Well Tests: **Jetted** Yield: **20+ GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 740/ 840 | Good |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------|
| 0 | 1 | Topsoil |
| 1 | 2 | Yellow limestone |
| 2 | 37 | Light gray limestone |
| 37 | 42 | Gray tan limestone |
| 42 | 57 | Light gray limestone |
| 57 | 60 | Tan Limestone |
| 60 | 90 | Light gray tan limestone |
| 90 | 100 | Dark gray limestone |
| 100 | 188 | Tan gray limestone |
| 188 | 375 | Gray limestone |
| 375 | 550 | Tan brown limestone |
| 550 | 580 | Gray clay |
| 580 | 620 | Gray brown limestone |
| 620 | 660 | Red gray limestone |
| 660 | 680 | Brown tan limestone |
| 680 | 710 | Gray tan limestone |
| 710 | 743 | Red Sandstone |
| 743 | 847 | Calcite |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|---------------------|-----------------------|
| 4.5 | New | PVC-SDR 17IB +12/ | 740 |
| 4.5 | New | PVC-17 Slotted .035 | 740/840 |
| 4.5 | New | PVC-SDR 17IB | 840/850 |

| | | |
|-----|-----|------------|
| 847 | 850 | Black rock |
|-----|-----|------------|

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #341367

Owner: **Robert Hardy / Cert. Homes**

Owner Well #: **No Data**

Address: **11501 Antler Bend Rd.
Austin, TX 78737**

Grid #: **58-49-1**

Well Location: **11501 Antler Bend Rd.
Austin, TX 78737**

Latitude: **30° 13' 10" N**

Longitude: **097° 58' 08" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/22/2013**

Drilling End Date: **7/22/2013**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 50 |
| | 6.25 | 50 | 910 |

Drilling Method: **Air Rotary**

Borehole Completion: **cased; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 1 | 50 | 6cmt 3gel |

Seal Method: **hand poured**

Distance to Property Line (ft.): **55**

Sealed By: **ADC**

Distance to Septic Field or other
concentrated contamination (ft.): **110+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **owner / tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **490 ft. below land surface on 2013-07-22** Measurement Method: **Unknown**

Packers: **burlap,plastic,rubber @ 750,730,50**

Type of Pump: **Submersible**

Pump Depth (ft.): **740**

Well Tests: **Jetted** **Yield: 15-20 GPM**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | n/a | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|-----------------|
| 750-910 | hosston trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc.**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit** License Number: **4064**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| From (ft) | To (ft) | Description |
|-----------|---------|---------------------|
| 0-10 | | white chalk |
| 10-410 | | gray lime |
| 410-430 | | gray limestone |
| 430 | | lost returns |
| 430-670 | | med. hard lime |
| 670-690 | | soft shale/clay |
| 690-750 | | med. hard limestone |
| 750-910 | | trinity sands |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------|-----------------------|
| 5 | od new | sdr17 pvc | -3 to 830 |
| 5 | od new | sdr17 pvc (.032) | screen 830 to 910 |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #369065

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Marianne Mason | Owner Well #: | No Data |
| Address: | 30 Tall Oaks Trail Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 30 Tall Oaks Trail Austin, TX 78737 | Latitude: | 30° 13' 08" N |
| Well County: | Hays | Longitude: | 097° 59' 14" W |
| | | Elevation: | 1115 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **5/20/2014** Drilling End Date: **6/10/2014**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.75 | 0 | 900 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | 5bns1hlp.5tH |

Seal Method: **Pos. displacement**

Sealed By: **Driller**

Distance to Property Line (ft.): **15**

Distance to Septic Field or other
concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **540 ft. below land surface on 2014-05-21** Measurement Method: **Unknown**

Packers: **6Mil Poly-Shale packer 100**
6Mil Poly 120
6Mil Poly 200
6Mil Poly 400
6Mil Poly 580
6Mil Poly 640
6Mil Poly 660

Type of Pump: **Submersible** Pump Depth (ft.): **800**

Well Tests: **Jetted** **Yield: 20+ GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|---------------------|
| 740 to 900 | Good TDS 700 |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Trave Haffelder**

Apprentice Number: **58603**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|------------|--------------|-----------------------------|
| 0 | 2 | Topsoil |
| 2 | 4 | White gray limestone |
| 4 | 6 | Brown limestone |
| 6 | 10 | Brown limestone clay |
| 10 | 120 | Gray limestone |
| 120 | 145 | Tan gray limestone |
| 145 | 175 | Tan limestone |
| 175 | 296 | Gray tan limestone |
| 296 | 305 | Gray shale |
| 305 | 320 | Gray shale limestone |
| 320 | 360 | Gray tan limestone |
| 360 | 370 | Gray shale limestone |
| 370 | 570 | Tan limestone |
| 570 | 610 | Gray limestone |
| 610 | 640 | Gray clay |
| 640 | 660 | Gray limestone |
| 660 | 720 | Gray tan limestone |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|------------|-----------------------|------------------------|
| 4.5 | New | PVC-SDR 171B | +2 to 800 |
| 4.5 | New | PVC-17 slotted | .035 800 to 900 |

| | | |
|-----|-----|--------------------------|
| 720 | 740 | Tan red limestone 3-5gpm |
| 740 | 745 | Calcite |
| 745 | 760 | Red tan limestone |
| 760 | 800 | Tan brown limestone |
| 800 | 900 | Calcite |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #394577

Owner: **Robert Hardy**

Owner Well #: **No Data**

Address: **11408 Southwest Oaks
Austin, TX 78737**

Grid #: **58-49-1**

Well Location: **11408 Southwest Oaks
Austin, TX 78737**

Latitude: **30° 13' 10" N**

Longitude: **097° 58' 29" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/8/2015**

Drilling End Date: **4/8/2015**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 50 |
| | 6.25 | 50 | 890 |

Drilling Method: **Air Rotary**

Borehole Completion: **cased; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | -1 | 50 | 7cmt 2gel |

Seal Method: **hand poured**

Distance to Property Line (ft.): **>60**

Sealed By: **ADC**

Distance to Septic Field or other
concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **well drilled first**

Surface Completion: **Surface Sleeve Installed**

Water Level: **513 ft. below land surface on 2015-04-08** Measurement Method: **Unknown**

Packers: **burlap,plastic,rubber @ 730,725,630,50**

Type of Pump: **No Data**

Well Tests: **Jetted** Yield: **20-25 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|----------------|
| 513-890 | Trinity Hoston |

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc.**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit**License Number: **4064**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------------|
| 0 | 15 | white chalk |
| 15 | 515 | gray lime |
| 515 | 560 | tan white limestone |
| 560 | 640 | gray white limestone |
| 640 | 670 | gray shale |
| 670 | 715 | tan white limestone |
| 715 | 750 | red sandstone |
| 750 | 760 | red white sandstone (h2o) |
| 760 | 860 | red sandstone |
| 860 | 880 | multi-colored limestones (h2o) |
| 880 | 890 | yellow limestone |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------|-----------------------|
| 5 od | new | sdr17 pvc | -3 to 790 |
| 5 od | new | sdr17 pvc (.032) | screen 790 to 870 |
| 5 od | new | sdr17 pvc | 870 to 890 |

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #404319

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | Treaty Oak Homes:Greg Hammond | Owner Well #: | #1 |
| Address: | 5701 W. Slaughter Ln A-130-362 Austin, TX 78749 | Grid #: | 58-49-1 |
| Well Location: | 3 Long Creek Rd Austin, TX 78737 | Latitude: | 30° 13' 04" N |
| Well County: | Hays | Longitude: | 097° 59' 03" W |
| | | Elevation: | 1064 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **7/31/2015** Drilling End Date: **8/12/2015**

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 7.875 | 0 | 880 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| Annular Seal Data: | 0 | 50 | 12 Cement |
| | 50 | 60 | 4 Bentonite |

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **51**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **475 ft. below land surface on 2015-08-03** Measurement Method: **Unknown**

Packers:

- Shale Packer 60
- 6Mil Poly 63
- Shale Packer 70
- 6Mil Poly 73
- 6Mil Poly 300
- 6Mil Poly 500
- Shale Packer 605
- 6Mil Poly 610
- Shale Packer 615
- 6Mil Poly 618

Type of Pump: **Submersible**

Pump Depth (ft.): **700**

Well Tests: **Jetted**

Yield: 30 GPM

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|---------------------|
| 660/880 | Good TDS 700 |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**
PO Box 525
Dripping Springs, TX 78620

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>From (ft)</i> | <i>To (ft)</i> | <i>Description</i> |
|------------------|----------------|-----------------------------|
| 0 | 1 | Topsoil |
| 1-5 | | Brown clay limestone |
| 5-85 | | Gray limestone |
| 85-130 | | Tan limestone |
| 130-185 | | Light gray limestone |
| 185-310 | | Gray tan limestone |
| 310-400 | | Tan limestone |
| 400-425 | | Gray limestone |
| 425-440 | | Gray limestone shale |
| 440-490 | | Tan limestone |
| 490-560 | | Gray tan limestone |
| 560-590 | | Gray clay |
| 590-630 | | Brown limestone |
| 630-640 | | Brown tan limestone |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|-----------------------|------------------------------|
| 4.5 | New | PVC-SDR 171B | +2/780 |
| 4.5 | New | PVC-17 Slotted | 780/860 .032 |
| Open Hole | | | 860/880 |

| |
|-----------------------------|
| 640-680 Red brown sandstone |
| 680-720 Red sandstone |
| 720-740 Conglomerate |
| 740-760 Red brown sandstone |
| 760-875 Conglomerate |
| 875-880 Black Rock |
| Water bearing 660-880 |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #407580

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | GASTON BROYLES | Owner Well #: | No Data |
| Address: | 11800 OAK BRANCH DRIVE AUSTIN, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 11800 OAK BRANCH DRIVE AUSTIN, TX 78737 | Latitude: | 30° 13' 13.08" N |
| Well County: | Travis | Longitude: | 097° 58' 49.92" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **8/19/2015** Drilling End Date: **8/19/2015**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.5 | 100 | 830 |

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | Cement 16 Bags/Sacks |
| | 0 | 100 | Bentonite 4 Bags/Sacks |
| | 580 | 600 | Cement 3 Bags/Sacks |

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **55+**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **100+**

Method of Verification: **OWNER**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **531 ft. below land surface on 2015-08-20** Measurement Method: **JETTED**

Packers:

- BURLAP & PVC at 100 ft.**
- BURLAP & PVC at 600 ft.**
- BURLAP & PVC at 620 ft.**
- BURLAP & PVC at 640 ft.**
- BURLAP & PVC at 660 ft.**
- BURLAP & PVC at 680 ft.**
- BURLAP & PVC at 700 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **740**

Well Tests: **No Test Data Specified**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 80 - 830 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.**

**2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620**

Driller Name: **AARON GLASS**

License Number: **4227**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|---|
| 0 | 1 | TOP SOIL |
| 1 | 20 | CALICHE |
| 20 | 25 | BLUE/GRAY LIMESTONE |
| 25 | 160 | GRAY LIMESTONE |
| 160 | 320 | GRAY/TAN LIMESTONE |
| 320 | 390 | TAN/GRAY LIMESTONE W/CLAY STRIPS |
| 390 | 470 | TAN LIMESTONE |
| 470 | 570 | TAN W/GRAY LIMESTONE |
| 570 | 605 | BROWN LIMESTONE |
| 605 | 670 | GRAY LIMESTONE W/HAMMETT CLAY |
| 670 | 710 | GRAY/TAN LIMESTONE |

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|----------------------|----------------------------------|------------------------------|----------------------|------------------|-------------------------|
| 5 | Blank | New Plastic (PVC) | 120 | 3 | 830 |
| 5 | Perforated or Slotted | New Plastic (PVC) | 120 0.032 | 720 | 820 |

| | | |
|-----|-----|----------------------|
| 710 | 820 | RED/TAN SANDSTONE |
| 820 | 830 | RED/BLUE CLAY STRIPS |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #442967

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | HAYDEN NOBLE | Owner Well #: | No Data |
| Address: | 26 TALL OAK TRAIL AUSTIN, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 26 TALL OAKS TRAIL AUSTIN, TX 78737 | Latitude: | 30° 13' 07.2" N |
| Well County: | Hays | Longitude: | 097° 59' 25.26" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/13/2016** Drilling End Date: **12/13/2016**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.125 | 100 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | Cement 14 Bags/Sacks |
| | 0 | 100 | Bentonite 2 Bags/Sacks |

Seal Method: **Slurry**

Distance to Property Line (ft.): **53**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **200+**

Distance to Septic Tank (ft.): **250+**

Method of Verification: **TAPE MEASURE**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **500 ft. below land surface on 2016-12-13** Measurement Method: **Electric Line**

Packers: **Burlap at 100 ft.
BURLAP & PVC at 640 ft.
BURLAP & PVC at 660 ft.
BURLAP & PVC at 680 ft.
BURLAP & PVC at 700 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **760**

Well Tests: **Jetted Yield: 40 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|---------------|
| 755 - 850 | LOWER TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.**
2520 Hwy. 290 West
Dripping Springs, TX 78620

Driller Name: **MARTIN DALE LINGLE, JR.**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 1 | TOP SOIL |
| 1 | 10 | CALICHE |
| 10 | 225 | GRAY LIMESTONE |
| 225 | 230 | GRAY LIMESTONE |
| 230 | 350 | GRAY & TAN LIMESTONE |
| 350 | 355 | GRAY LIMESTONE & GRAY CLAY |
| 360 | 430 | TAN & GRAY LIMESTONE |
| 430 | 590 | TAN LIMESTONE |
| 590 | 635 | GRAY/TAN W/BROWN LIMESTONE |
| 635 | 680 | HAMMETT CLAY |
| 680 | 695 | HAMMETT CLAY W/RED CLAY |
| 695 | 755 | GRAY/TAN LIMESTONE |
| 755 | 850 | SAND |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-----------------------|-------------------|------------|-----------|--------------|
| 5 | Blank | New Plastic (PVC) | SDR17 | 3 | 750 |
| 5 | Perforated or Slotted | New Plastic (PVC) | SDR17 SLOT | 750 | 850 |

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Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #501931

Owner: **Proposed 7-Eleven # 38575** Owner Well #: **TMW-1**
Address: **Oak Branch Drive & Hwy 290** Grid #: **58-49-1**
Austin, TX 78737
Well Location: **Oak Branch Drive & Hwy 290** Latitude: **30° 12' 32.06" N**
Austin, TX 78737 Longitude: **097° 58' 24.36" W**
Well County: **Hays** Elevation: **1191 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #183814

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/10/2019** Drilling End Date: **1/10/2019**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 42.5 |

Drilling Method: **Air Rotary**

Borehole Completion: **Perforated or Slotted**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 5 | Bentonite 2 Bags/Sacks |
| | 5 | 42.5 | Sand 22 Bags/Sacks |

Seal Method: **Poured**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Roddy Qualls Environmental Drilling**

**314 thomas pl
everman, TX 76140**

Driller Name: **Jon Storm**

License Number: **5003**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--------------------------|
| 0 | 0.5 | Brown Silty Loam |
| 0.5 | 1 | Lt. Tan Loam |
| 1 | 42.5 | Lt. Tan Limestone |

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|----------------------|---------------|------------------------------|---------------------|------------------|-------------------------|
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 7.5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 7.5 | 42.5 |

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Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #548438

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Kevin Hurwitz | Owner Well #: | No Data |
| Address: | 11340 Rim Rock Trail Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 11340 Rim Rock Trail Austin, TX 78737 | Latitude: | 30° 12' 55" N |
| | | Longitude: | 097° 57' 55" W |
| Well County: | Travis | Elevation: | 1115 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **5/15/2020** Drilling End Date: **5/15/2020**

| Borehole: | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| | 10.625 | 0 | 10 |
| | 8.5 | 10 | 50 |
| | 6.75 | 50 | 625 |

Drilling Method: **Air Rotary**

Borehole Completion: **Perforated or Slotted**

| Annular Seal Data: | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| | 0 | 40 | Cement 7 |
| | 40 | 50 | Bentonite 2 |

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **65**

Distance to Septic Field or other
concentrated contamination (ft.): **200**

Distance to Septic Tank (ft.): **200**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **No Data**

Packers: **Rubber at 50 ft.
Rubber at 55 ft.
Rubber at 495 ft.
Rubber at 500 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **600**

Well Tests: **Jetted** **Yield: 25 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Bee Cave Drilling, Inc.**
185 Angel Fire Dr.
Dripping Springs, TX 78620

Driller Name: **jim blair**

License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 1 | topsoil |
| 1 | 10 | tan caliche |
| 10 | 280 | grey limestone |
| 280 | 360 | tan limestone |
| 360 | 380 | grey limestone |
| 380 | 400 | tan/grey limestone |
| 400 | 450 | grey limestone |
| 450 | 480 | tan limestone |
| 480 | 500 | dark grey limestone |
| 500 | 540 | grey limestone wb 5 gpm at 950 tds |
| 540 | 625 | tan limestone wb 25 + gpm at 1400 tds |

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------------------|--------------------------|------------------|------------------|---------------------|
| 4.5 | Blank | New Plastic (PVC) | sdr-17 | 0 | 545 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | sdr-17 | 545 | 625 |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556235

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-1**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 9 |

Drilling Method: **SFA**

Borehole Completion: **Plugged**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.29 Bags/Sacks |
| | 2 | 9 | Bentonite 0.8 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal** License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 0.7 | Asphalt & Base Material. |
| 0.7 | 9 | Black silty clay, Glen Rose limestone, gravel, and silt backfill mixture (water saturated at 8.5' deep). |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------|-----------------------|
| No Data | | | |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556240

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-2**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 3 |

Drilling Method: **SFA**

Borehole Completion: **Plugged**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.29 Bags/Sacks |
| | 2 | 3 | Bentonite 0.11 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal** License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 1 | asphalt & base material |
| 1 | 2 | light gray to black silty clay |
| 2 | 3 | tan & buff Glen Rose limestone weathered rock |
| 3 | 3 | refusal at 3' on bedrock |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------|-----------------------|
| No Data | | | |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556241

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-3**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 2 |

Drilling Method: **SFA**

Borehole Completion: **Plugged**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.29 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal** License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 0.7 | asphalt & base material |
| 0.7 | 2 | black silty clay with fragments of weathered limestone |
| 2 | 2 | refusal at 2' on bedrock |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------|-----------------------|
| No Data | | | |

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556283

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-4**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 3 |

Drilling Method: **SFA**

Borehole Completion: **Plugged**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.29 Bags/Sacks |
| | 2 | 3 | 0.11 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal** License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 0.8 | asphalt & base material with some perched water |
| 0.8 | 2 | fill - tan limestone gravel and tan/black/buff silt (second asphalt layer at 1.5') |
| 2 | 3 | tan & buff Glen Rose limestone weathered rock |
| 3 | 3 | refusal at 3' on bedrock |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------|-----------------------|
| No Data | | | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556291

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-5/TMW-1**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #203025

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 15 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 4 | 15 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | | | TEMP WELL |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| | |
|---------------------------|-------------------|
| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|---|
| 0 | 0.8 | asphalt & base material with some perched water |
| 0.8 | 2 | fill - tan limestone gravel and brown/black silty clay mix (rejected at 2' on bedrock) |
| 2 | 6 | tan & buff Glen Rose limestone with petroleum odor (solid flight auger drill cuttings) |
| 6 | 11 | buff Glen Rose marl, soft, moist to wet (core and cuttings) |
| 11 | 12 | tan to lt brown Glen Rose limestone layer (water saturated) |
| 12 | 15 | interlayered marl & limestone |

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|-------------------|--------------------------|------------------|------------------|---------------------|
| 1 | Top Cap | New Plastic (PVC) | 40 | | |
| 1 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 1 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 1 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 15 |

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Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #556294

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-6/TMW-2**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #203027

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 15 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 4 | 15 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | | | TEMP WELL |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 1 | asphalt & base material with some perched water |
| 1 | 2.5 | black silty clay with limestone nodules (rejected at 3' on bedrock) |
| 2.5 | 10 | tan & buff Glen Rose limestone with petroleum odor at 5 - 7.5' (solid flight auger drill cuttings) |
| 10 | 10.5 | buff Glen Rose marl |
| 10.5 | 15 | dark gray shaley Glen Rose limestone - water saturated at 10.5 - 11' |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|------------|-------------------|-----------|-----------|--------------|
| 1 | Top Cap | New Plastic (PVC) | 40 | | |
| 1 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 1 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 1 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 15 |

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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #556724

| | | | |
|----------------|---|---------------|---------------------------------|
| Owner: | Nina Abraham | Owner Well #: | No Data |
| Address: | 12619-C Fitzhugh Road Austin, TX 78736 | Grid #: | 58-49-1 |
| Well Location: | 12619-C Fitzhugh Road Austin, TX 78736 | Latitude: | 30° 13' 34.74" N |
| Well County: | Travis | Longitude: | 097° 59' 23.88" W |
| | | Elevation: | 1080 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **9/15/2020** Drilling End Date: **9/15/2020**

| Borehole: | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| | 8.75 | 0 | 50 |
| | 6.25 | 50 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| Annular Seal Data: | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| | -1 | 50 | 5 cement 2 benseal Bags/Sacks |

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **+150**

Distance to Septic Field or other
concentrated contamination (ft.): **+150**

Distance to Septic Tank (ft.): **+150**

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **551 ft. below land surface on 2020-09-15** Measurement Method: **Sonic/Radar**

Packers: **burlap 50'**
burlap and plastic 690', 670'

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 25-30 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------------------|
| 299 | Hosston Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc**
PO BOX 623
Dripping Springs, TX 78620

Driller Name: **James Benoit** License Number: **4064**

Comments: **Drilled for Glass Well Services**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|------------|--------------|----------------------------------|
| 0 | 2 | bedrock |
| 2 | 10 | white calachie |
| 10 | 425 | blue lime |
| 425 | 555 | tan lime |
| 555 | 605 | tan white limestone |
| 605 | 635 | grey lime and shale |
| 635 | 670 | white limestone |
| 670 | 710 | red sandstone |
| 710 | 730 | tan yellow limestone, H2O |
| 730 | 795 | red sandstone |
| 795 | 830 | tan white limestone, H2O |
| 830 | 850 | white yellow limestone |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|------------|---------------|--------------------------|--------------------|------------|--------------|
| 4.5 | Blank | New Plastic (PVC) | sdr17 | -3 | 750 |
| 4.5 | Screen | New Plastic (PVC) | sdr17 0.020 | 750 | 830 |
| 4.5 | Blank | New Plastic (PVC) | ser17 | 830 | 850 |

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STATE OF TEXAS WELL REPORT for Tracking #566393

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-1**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.04" N**

Longitude: **097° 58' 05.66" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225786

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21.5 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 21.5 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Craig Wilcox**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 0.5 | asphalt & base material (fill) |
| 0.5 | 2 | red-brown to tan/brown silty clay (rejected at 2' on bedrock) |
| 2 | 10 | tan & buff Glen Rose limestone, moist at 7 - 8' (solid flight auger drill cuttings) |
| 10 | 15.5 | tan/buff marl, soft, wet |
| 15.5 | 21.5 | Glen Rose limestone layer with some buff marl |

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|--------------------------|--------------------------|------------------|------------------|---------------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #566401

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-4**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 41.08" N**

Longitude: **097° 58' 05.15" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225790

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 21 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**

**4412 Bluemel Road
San Antonio, TX 78240**

Driller Name: **James E. Neal**License Number: **4868**Apprentice Name: **Craig Wilcox**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 1 | asphalt & base material (fill) |
| 1 | 3.5 | tan/black silty clay with limestone gravel - rejected at 3.5' on bedrock |
| 3.5 | 4.5 | Glen Rose Limestone dense (solid flight auger drill cuttings) |
| 4.5 | 8 | marl (buff at base) |
| 8 | 9 | Glen Rose limestone |
| 9 | 13.5 | buff marl with thin limestone layers at 11 - 13' |
| 13.5 | 15 | Glen Rose Limestone |
| 15 | 17.5 | marl with limestone interlayers |
| 17.5 | 21 | Glen Rose limestone |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-------------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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STATE OF TEXAS WELL REPORT for Tracking #566402

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-5**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.04" N**

Longitude: **097° 58' 03.8" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225791

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 21 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Craig Wilcox**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 1 | asphalt & base material (fill) |
| 1 | 2 | limestone gravel, lt brown to buff (weathered?) |
| 2 | 3.5 | black silty clay - rejected at 3.5' on bedrock |
| 3.5 | 7 | tan to lt brown Glen Rose limestone with marl seam (solid flight auger drill cuttings) |
| 7 | 16 | lt brown to buff marl with thin limestone layers increasing in content with depth |
| 16 | 21 | Glen Rose Limestone (dense) |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-----------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #566403

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-6**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.82" N**

Longitude: **097° 58' 03.46" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225792

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 6 | 0 | 21 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|--------------|
| 3 | 21 | Sand | 12/20 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 2 | Concrete 0.58 Bags/Sacks |
| 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Craig Wilcox**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 1.5 | red-brown silty clay (fill?) |
| 1.5 | 2.5 | dk brown to black silty clay |
| 2.5 | 3.5 | tan limestone gravel with dk brown silty clay |
| 3.5 | 12 | tan to buff marl, moist to wet at 6.5' |
| 12 | 21 | Glen Rose Limestone |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-----------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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STATE OF TEXAS WELL REPORT for Tracking #566405

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-7**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 41.6" N**

Longitude: **097° 58' 04.26" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225793

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 21 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Craig Wilcox**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 1.5 | dk brown to brown silty clay |
| 1.5 | 2.5 | dk brown clay mixed with limestone gravel |
| 2.5 | 11 | tan to buff marl, moist to wet at 7 - 8' |
| 11 | 17.5 | Glen Rose Limestone (dense) |
| 17.5 | 21 | buff to tan marl |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-------------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #567555

| | | | |
|----------------|--------------------------------------|---------------|------------------|
| Owner: | KEVIN BADEEN (AART'S JOB) | Owner Well #: | No Data |
| Address: | 5 LONG CREEK RD. AUSTIN, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 5 LONG CREEK RD. AUSTIN, TX 78737 | Latitude: | 30° 13' 03.12" N |
| Well County: | Hays | Longitude: | 097° 59' 00.6" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: 1/27/2021 Drilling End Date: 1/27/2021

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.125 | 100 | 850 |

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

| | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| Annular Seal Data: | 0 | 100 | PORTLAND CEMENT 14 Bags/Sacks |

Seal Method: Pressure

Sealed By: Driller

Distance to Property Line (ft.): 100+

Distance to Septic Field or other
concentrated contamination (ft.): 100+

Distance to Septic Tank (ft.): 75+

Method of Verification: OWNER

Surface Completion: Surface Sleeve Installed

Surface Completion by Driller

Water Level: 514 ft. below land surface on 2021-01-27 Measurement Method: Electric Line

Packers: Burlap at 100 ft.
BURLAP & PLASTIC at 120 ft.
BURLAP & PLASTIC at 500 ft.
BURLAP & PLASTIC at 600 ft.
BURLAP & PLASTIC at 730 ft.
BURLAP & PLASTIC at 750 ft.

Type of Pump: Submersible

Well Tests: Jetted Yield: 40 GPM

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|---------------|
| 750 - 850 | LOWER TRINITY |

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.****2520 Hwy. 290 West
Dripping Springs, TX 78620**Driller Name: **MARTIN DALE LINGLE**License Number: **54813**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------|
| 0 | 2 | ROCK |
| 2 | 15 | CALICHE |
| 15 | 17 | BLUE LIMESTONE |
| 17 | 23 | BROWN LIMESTONE |
| 23 | 48 | GRAY LIMESTONE |
| 48 | 51 | BROWN LIMESTONE |
| 51 | 370 | GRAY LIMESTONE |
| 370 | 400 | TAN LIMESTONE |
| 400 | 430 | GRAY LIMESTONE |
| 430 | 570 | TAN/BROWN LIMESTONE |
| 570 | 590 | GRAY LIMESTONE |
| 590 | 630 | GRAY CLAY |
| 630 | 650 | GRAY/TAN LIMESTONE |
| 650 | 670 | GRAY/TAN LIMESTONE |
| 670 | 690 | RED SANDSTONE SAND |
| 690 | 710 | RED SANDSTONE SAND |
| 710 | 730 | RED SANDSTONE SAND |
| 730 | 750 | BROWN SANDSTONE SAND |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-----------------------|-------------------|-----------|-----------|--------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 2 | 750 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | SDR17 | 750 | 850 |

| | | |
|-----|-----|---------------------------------|
| 750 | 770 | BROWN/RED LIMESTONE W/GRAVEL |
| 770 | 790 | BROWN/RED SAND |
| 790 | 810 | CONGLOMERATE |
| 810 | 830 | CONGLOMERATE |
| 830 | 850 | RED SANDSTONE W/CLAY |

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #588849

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Adan & Misty Arredondo | Owner Well #: | No Data |
| Address: | 11120 Shady Hollow Dr. Austin, TX 78748 | Grid #: | 58-49-1 |
| Well Location: | 11201 Southwest Oaks Austin, TX 78737 | Latitude: | 30° 12' 59" N |
| Well County: | Travis | Longitude: | 097° 58' 17" W |
| | | Elevation: | 1138 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **10/22/2021** Drilling End Date: **10/22/2021**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.125 | 100 | 890 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | Portland 12 Bags/Sacks |

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **Well drilled first**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **567.8 ft. below land surface, and 50 GPM** Measurement Method: **Electric Line**
artesian flow on **2021-11-05**

Packers: **Burlap at 100 ft.**
Burlap/Plastic at 120 ft.
Burlap/Plastic at 300 ft.
Burlap/Plastic at 600 ft.
Burlap/Plastic at 750 ft.
Burlap/Plastic at 790 ft.

Type of Pump: **Submersible**

Pump Depth (ft.): **740**

Well Tests: **Jetted** **Yield: 50 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|---------------|
| 790 - 890 | Lower Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.**

**2520 Hwy. 290 West
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------|
| 0 | 15 | Caliche |
| 15 | 16 | Blue |
| 16 | 95 | Gray |
| 95 | 405 | Gray Tan |
| 405 | 650 | Tan |
| 650 | 710 | Gray w/ Clay |
| 710 | 730 | Gray |
| 730 | 750 | Brown Tan |
| 750 | 770 | Red Brown Gray |
| 770 | 790 | Brown Sand |
| 790 | 810 | Gray Tan Brown Red |
| 810 | 830 | Gray Tan Brown Red |
| 830 | 850 | Brown Sand Stone |
| 850 | 870 | Red Brown |
| 870 | 890 | Red w/ Clay |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-----------------------|-------------------|-----------|-----------|--------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 2 | 790 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | SDR17 | 790 | 890 |

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #597906

Owner: **McCraw Oil, Inc.** Owner Well #: **MW-8**
Address: **2207 North Center Street** Grid #: **58-49-1**
Bonham, TX 75418
Well Location: **12009 US-290** Latitude: **30° 12' 39.44" N**
Austin, TX 78737 Longitude: **097° 58' 04.96" W**
Well County: **Travis** Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225794

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **2/11/2022**

Drilling End Date: **2/11/2022**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 22 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 22 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| | |
|---------------------------|-------------------|
| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal Tony Elmendorf** License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Report Amended on 2/24/2022 by Request #35919

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|---|
| 0 | 0.5 | gravel and black clay (fill) |
| 0.5 | 1.5 | black silty clay, moist |
| 1.5 | 4 | tan & buff Glen Rose marl, moist (solid flight auger drill cuttings started in this interval) |
| 4 | 17.5 | tan & light brown Glen Rose limestone turning buff with water saturation between 7.5' - 10' deep (possibly deeper) |
| 17.5 | 22 | tan & buff Glen Rose marl (dry to moist) |

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|--------------------------|--------------------------|------------------|------------------|---------------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #597914

Owner: **McCraw Oil, Inc.** Owner Well #: **MW-9**
Address: **2207 North Center Street** Grid #: **58-49-1**
Bonham, TX 75418
Well Location: **12009 US-290** Latitude: **30° 12' 38.42" N**
Austin, TX 78737 Longitude: **097° 58' 02.65" W**
Well County: **Travis** Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225796

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **2/11/2022**

Drilling End Date: **2/11/2022**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 22 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 22 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Report Amended on 2/24/2022 by Request #35920

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 1 | black silty clay, moist |
| 1 | 4 | light brown silt, moist to wet (weathered Glen Rose limestone) |
| 4 | 8 | tan to buff Glen Rose Limestone, moist to wet (solid flight auger drill cuttings) |
| 8 | 10 | light gray shaley seam, heavily water saturated |
| 10 | 22 | light gray turning to tan & buff Glen Rose limestone, harder with depth, dry to moist, groundwater seeping in from 8 - 10' |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-----------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #612782

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Rick Nelson | Owner Well #: | No Data |
| Address: | 15 Long Creek Rd Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 15 Long Creek Rd Austin, TX 78737 | Latitude: | 30° 12' 53" N |
| Well County: | Hays | Longitude: | 097° 59' 00" W |
| | | Elevation: | 1085 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **6/9/2022**

Drilling End Date: **6/9/2022**

| Borehole: | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| | 9 | 0 | 100 |
| | 6.125 | 100 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| Annular Seal Data: | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| | 0 | 100 | Cement 12 Bags/Sacks |

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap at 100 ft.
Burlap/Plastic at 120 ft.
Burlap/Plastic at 300 ft.
Burlap/Plastic at 500 ft.
Burlap/Plastic at 600 ft.
Burlap/Plastic at 740 ft.**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 30 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|----------------------|
| 740 - 840 | Lower Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.**
2520 Hwy. 290 West
Dripping Springs, TX 78620

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|----------------------------|
| 0 | 1 | Rock |
| 1 | 14 | Caliche |
| 14 | 16 | Blue |
| 16 | 25 | Gray |
| 25 | 330 | Gray & Tan |
| 330 | 580 | Tan |
| 580 | 630 | Gray w/ Clay |
| 630 | 690 | Gray & Tan |
| 690 | 770 | Red Brown & Tan |
| 770 | 840 | Conglomerate |
| 840 | 850 | Gray w/ Clay |

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------------------|--------------------------|------------------|------------------|---------------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 2 | 740 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | SDR17 | 740 | 840 |
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 840 | 850 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #655481

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Randall Porter | Owner Well #: | 58491CF |
| Address: | 464 Counts Estates DR. Dripping Springs, TX 78620 | Grid #: | 58-49-1 |
| Well Location: | 11701 Fitzhugh RD. Austin, TX 78736 | Latitude: | 30° 13' 32" N |
| Well County: | Travis | Longitude: | 097° 58' 21" W |
| | | Elevation: | 1123 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/1/2023** Drilling End Date: **12/1/2023**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.13 | 100 | 890 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | Cement 14 Bags/Sacks |

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **Well drilled first**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **610 ft. below land surface on 2023-12-01**

Packers: **Burlap at 100 ft.
Burlap/Plastic at 120 ft.
Burlap/Plastic at 500 ft.
Burlap/Plastic at 600 ft.
Burlap/Plastic at 700 ft.
Burlap/Plastic at 790 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **740**

Well Tests: **Jetted Yield: 20 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|----------------------|
| 790 - 890 | Lower Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.**
2520 Hwy. 290 West
Dripping Springs, TX 78620

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|---|
| 0 | 1 | Top Soil |
| 1 | 12 | Caliche |
| 12 | 53 | Gray w/ Clay |
| 53 | 205 | Gray |
| 205 | 270 | Gray-Tan |
| 270 | 450 | Gray |
| 450 | 600 | Tan |
| 600 | 620 | Gray |
| 620 | 650 | Hammid |
| 650 | 670 | Gray Tan |
| 670 | 700 | Gray & Red Clay |
| 700 | 720 | Gray Tan |
| 720 | 790 | Gray Tan Red |
| 790 | 885 | Tan Brown Sand Stone W/ Sand |
| 885 | 890 | Rock Brown Clay |

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|----------------------|----------------------------------|------------------------------|------------------|------------------|-------------------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 0 | 790 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | SDR17 | 790 | 890 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #655862

| | | | |
|----------------|---|---------------|--------------------------|
| Owner: | Rachel & Peter Linden | Owner Well #: | No Data |
| Address: | 6 Long Creek Road Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 6 Long Creek Road Austin, TX 78737 | Latitude: | 30° 12' 56.77" N |
| Well County: | Hays | Longitude: | 097° 59' 05.39" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **11/17/2023** Drilling End Date: **11/17/2023**

| Borehole: | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| | 8.75 | 0 | 100 |
| | 6.25 | 100 | 910 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| Annular Seal Data: | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| | -1 | 100 | 10 cement, 4 Benseal Bags/Sacks |

Seal Method: **Pressure Tremie**

Distance to Property Line (ft.): **30**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **+100**

Distance to Septic Tank (ft.): **+100**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **558 ft. below land surface on 2023-11-17** Measurement Method: **Sonic/Radar**

Packers: **Burlap & PVC 750', 730'**
Burlap & Rubber 100'

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 15-20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|-----------------|
| 558 - 910 | Hosston Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc**
PO BOX 673
Dripping Springs, TX 78620

Driller Name: **James Benoit** License Number: **4064**

Comments: **Drilled for Wiley Water Well Service. Hays Trinity Groundwater District Permit**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-------------------------|
| 0 | 3 | topsoil |
| 3 | 10 | tan clay & lime |
| 10 | 435 | blue lime |
| 435 | 505 | tan limestone |
| 505 | 555 | gray limestone |
| 555 | 605 | gray lime & shale |
| 605 | 710 | gray white limestone |
| 710 | 740 | red clay |
| 740 | 790 | red sandstone |
| 790 | 850 | tan white limestone |
| 850 | 890 | multi color limestone |
| 890 | 910 | yellow limestone & clay |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|--------|-------------------|-------------|-----------|--------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | -3 | 830 |
| 4.5 | Screen | New Plastic (PVC) | SDR17 0.020 | 830 | 890 |
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 890 | 910 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

Section 1. Permitted or Proposed Flows (Instructions Page 42)

A. Existing/Interim I Phase

Design Flow (MGD): 0.04 MGD

2-Hr Peak Flow (MGD): 0.16 MGD

Estimated construction start date: February 2026

Estimated waste disposal start date: August 2026

B. Interim II Phase

Design Flow (MGD):

2-Hr Peak Flow (MGD):

Estimated construction start date:

Estimated waste disposal start date:

C. Final Phase

Design Flow (MGD): 0.06128 MGD

2-Hr Peak Flow (MGD): 0.24512 MGD

Estimated construction start date: February 2027

Estimated waste disposal start date: August 2027

D. Current Operating Phase

Provide the startup date of the facility:

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided.**

See Treatment Unit Sizing and Process Description.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) of **each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

| Treatment Unit Type | Number of Units | Dimensions (L x W x D) |
|--|-----------------|------------------------|
| See Treatment Unit Sizing and Process Description. | | |
| | | |
| | | |
| | | |
| | | |
| | | |

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

Attachment: Process Flow Diagram

Section 3. Site Information and Drawing (Instructions Page 43)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude:
- Longitude:

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: 30.2180
- Longitude: -97.9783

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: Site Map

Provide the name **and** a description of the area served by the treatment facility.

The facility will serve SW Oaks Development, a new subdivision in Travis County, Texas.

Collection System Information for wastewater TPDES permits only: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

| Collection System Name | Owner Name | Owner Type | Population Served |
|------------------------|------------|------------|-------------------|
| | | | |
| | | | |
| | | | |
| | | | |

Section 4. Unbuilt Phases (Instructions Page 44)

Is the application for a renewal of a permit that contains an unbuilt phase or phases?

☐ Yes ☒ No

If **yes**, does the existing permit contain a phase that has not been constructed **within five years** of being authorized by the TCEQ?

☐ Yes ☐ No

If **yes**, provide a detailed discussion regarding the continued need for the unbuilt phase. **Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases.**

Section 5. Closure Plans (Instructions Page 44)

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

☐ Yes ☒ No

If **yes**, was a closure plan submitted to the TCEQ?

☐ Yes ☐ No

If **yes**, provide a brief description of the closure and the date of plan approval.

Section 6. Permit Specific Requirements (Instructions Page 44)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☐ Yes ☒ No

If **yes**, provide the date(s) of approval for each phase:

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable.**

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

The buffer zone will be met by ownership

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☐ Yes ☒ No

If **yes**, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?

☐ Yes ☒ No

If **No**, stop here and continue with Subsection E. Stormwater Management.

2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

3. Grit disposal

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☒ No

If **No**, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

4. Grease and decanted liquid disposal

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

E. Stormwater management

1. Applicability

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☐ Yes ☒ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☐ Yes ☒ No

If no to both of the above, then skip to Subsection F, Other Wastes Received.

2. MSGP coverage

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☐ Yes ☒ No

If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 _ or TXRNE

If no, do you intend to seek coverage under TXR050000?

☐ Yes ☒ No

3. Conditional exclusion

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☒ No

If yes, please explain below then proceed to Subsection F, Other Wastes Received:

4. Existing coverage in individual permit

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☒ No

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

5. Zero stormwater discharge

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☒ No

If yes, explain below then skip to Subsection F. Other Wastes Received.

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. Request for coverage in individual permit

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☒ No

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you

intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.

G. Other wastes received including sludge from other WWTPs and septic waste

1. Acceptance of sludge from other WWTPs

Does or will the facility accept sludge from other treatment plants at the facility site?

☐ Yes ☐ No

If yes, attach sewage sludge solids management plan. See Example 5 of instructions.

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

If yes, does the facility have a Type V processing unit?

☐ Yes ☐ No

If yes, does the unit have a Municipal Solid Waste permit?

☐ Yes ☐ No

If **yes to any of the above**, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

3. Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)

Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?

☐ Yes ☒ No

If **yes**, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 49)

Is the facility in operation?

☐ Yes ☒ No

If **no**, this section is not applicable. Proceed to Section 8.

If **yes**, provide effluent analysis data for the listed pollutants. **Wastewater treatment facilities** complete Table 1.0(2). **Water treatment facilities** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

Note: The sample date must be within 1 year of application submission.

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

| Pollutant | Average Conc. | Max Conc. | No. of Samples | Sample Type | Sample Date/Time |
|---|---------------|-----------|----------------|-------------|------------------|
| CBOD ₅ , mg/l | | | | | |
| Total Suspended Solids, mg/l | | | | | |
| Ammonia Nitrogen, mg/l | | | | | |
| Nitrate Nitrogen, mg/l | | | | | |
| Total Kjeldahl Nitrogen, mg/l | | | | | |
| Sulfate, mg/l | | | | | |
| Chloride, mg/l | | | | | |
| Total Phosphorus, mg/l | | | | | |
| pH, standard units | | | | | |
| Dissolved Oxygen*, mg/l | | | | | |
| Chlorine Residual, mg/l | | | | | |
| <i>E.coli</i> (CFU/100ml) freshwater | | | | | |
| Enterococci (CFU/100ml) saltwater | | | | | |
| Total Dissolved Solids, mg/l | | | | | |
| Electrical Conductivity, μ mohs/cm, † | | | | | |
| Oil & Grease, mg/l | | | | | |
| Alkalinity (CaCO ₃)*, mg/l | | | | | |

*TPDES permits only

†TLAP permits only

Table1.0(3) – Pollutant Analysis for Water Treatment Facilities

| Pollutant | Average Conc. | Max Conc. | No. of Samples | Sample Type | Sample Date/Time |
|---------------------------------------|---------------|-----------|----------------|-------------|------------------|
| Total Suspended Solids, mg/l | | | | | |
| Total Dissolved Solids, mg/l | | | | | |
| pH, standard units | | | | | |
| Fluoride, mg/l | | | | | |
| Aluminum, mg/l | | | | | |
| Alkalinity (CaCO ₃), mg/l | | | | | |

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: To be determined

Facility Operator's License Classification and Level: To be determined

Facility Operator's License Number: To be determined

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 50)

A. WWTP's Sewage Sludge or Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☐ Design flow \geq 1 MGD
- ☐ Serves \geq 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user – land application (onsite)
- ☐ Biosolids end user – surface disposal (onsite)
- ☐ Biosolids end user – incinerator (onsite)

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (≥ 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process:

C. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the

permit will authorize all sewage sludge or biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

| Management Practice | Handler or Preparer Type | Bulk or Bag Container | Amount (dry metric tons) | Pathogen Reduction Options | Vector Attraction Reduction Option |
|---------------------|--------------------------|-----------------------|--------------------------|----------------------------|------------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |

If “Other” is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Monofill – transported to processing facility for disposal

D. Disposal site

Disposal site name: To be determined

TCEQ permit or registration number: To be determined

County where disposal site is located: To be determined

E. Transportation method

Method of transportation (truck, train, pipe, other): To be determined

Name of the hauler: To be determined

Hauler registration number: To be determined

Sludge is transported as a:

Liquid ☐ semi-liquid ☒ semi-solid ☐ solid ☐

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 52)

A. Beneficial use authorization

Does the existing permit include authorization for land application of biosolids for beneficial use?

☐ Yes ☒ No

If **yes**, are you requesting to continue this authorization to land apply biosolids for beneficial use?

☐ Yes ☐ No

If **yes**, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

| | | |
|--|------------------------------|--|
| Sludge Composting | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Marketing and Distribution of Biosolids | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Sludge Surface Disposal or Sludge Monofill | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Temporary storage in sludge lagoons | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

If **yes** to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☒ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:
Attachment:
- USDA Natural Resources Conservation Service Soil Map:
Attachment:
- Federal Emergency Management Map:
Attachment:
- Site map:
Attachment:

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment:

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0*.

Nitrate Nitrogen, mg/kg:

Total Kjeldahl Nitrogen, mg/kg:

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg:

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

Volume and frequency of sludge to the lagoon(s):

Total dry tons stored in the lagoons(s) per 365-day period:

Total dry tons stored in the lagoons(s) over the life of the unit:

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1×10^{-7} cm/sec?

☐ Yes ☐ No

If yes, describe the liner below. Please note that a liner is required.

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)
Attachment:
- Copy of the closure plan
Attachment:
- Copy of deed recordation for the site
Attachment:
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment:
- Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment:
- Procedures to prevent the occurrence of nuisance conditions
Attachment:

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☐ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment:

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 54)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If **yes**, provide the TCEQ authorization number and description of the authorization:

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☐ Yes ☒ No

If **yes** to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

☐ Yes ☒ No

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

☐ Yes ☒ No

C. Details about wastes received

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment:

Section 14. Laboratory Accreditation (Instructions Page 55)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
 - periodically inspected by the TCEQ; or
 - located in another state and is accredited or inspected by that state; or
 - performing work for another company with a unit located in the same site; or
 - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*.

Printed Name: Elizabeth Good

Title: Partner – Good and West Acquisitions, LLC

Signature: 

Date: 1/8/2025

DOMESTIC WASTEWATER PERMIT APPLICATION

TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

The SW Oaks WWTF will serve approximately 308 residential units at 130gpd/unit and several commercial lots. The combined residential and commercial space will generate an estimated 61,280 gallons per day of wastewater at full buildout. This is in line with other communities in the general vicinity that uses similar flow generation. There are no facilities within 3 miles that have capacity.

B. Regionalization of facilities

For additional guidance, please review [TCEQ's Regionalization Policy for Wastewater Treatment](#)¹.

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. *Municipally incorporated areas*

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of:

If yes, attach correspondence from the city.

Attachment:

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment:

2. *Utility CCN areas*

Is any portion of the proposed service area located inside another utility's CCN area?

☐ Yes ☒ No

¹ <https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater>

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

| Source | Total Average Flow (MGD) | Influent BOD ₅ Concentration (mg/l) |
|---|--------------------------|--|
| Municipality | | |
| Subdivision | 0.06128 | 350 |
| Trailer park - transient | | |
| Mobile home park | | |
| School with cafeteria and showers | | |
| School with cafeteria, no showers | | |
| Recreational park, overnight use | | |
| Recreational park, day use | | |
| Office building or factory | | |
| Motel | | |
| Restaurant | | |
| Hospital | | |
| Nursing home | | |
| Other | | |
| TOTAL FLOW from all sources | 0.06128 | |
| AVERAGE BOD ₅ from all sources | | 350 |

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 58)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: ≥2

Other:

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: ≥2

Other:

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: ≥2

Other:

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: 1-4 mg/l after 10 minutes detention time at peak flow

Dechlorination process: OR

☒ Ultraviolet Light: 10 seconds contact time at peak flow

☐ Other:

Section 4. Design Calculations (Instructions Page 58)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: Design Calculations

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☒ Yes ☐ No

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

Provide the source(s) used to determine 100-year frequency flood plain.

FEMA NFHL Viewer: 48453C0555J

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☒ No

If **yes**, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☒ No

If **yes**, provide the permit number:

If **no**, provide the approximate date you anticipate submitting your application to the Corps:

B. Wind rose

Attach a wind rose: Windrose

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☒ No

If **yes**, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**:

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

- ☐ Sludge Composting
- ☐ Marketing and Distribution of sludge
- ☐ Sludge Surface Disposal or Sludge Monofill

If **any of the above**, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**:

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 60)

Attach a solids management plan to the application.

Attachment: Solids Management Plan

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities

- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

The following is required for renewal, new, and amendment permit applications.

Section 1. Type of Disposal System (Instructions Page 67)

Identify the method of land disposal:

- | | |
|--|---|
| <input type="checkbox"/> Surface application | <input type="checkbox"/> Subsurface application |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Subsurface soils absorption |
| <input type="checkbox"/> Drip irrigation system | <input checked="" type="checkbox"/> Subsurface area drip dispersal system |
| <input type="checkbox"/> Evaporation | <input type="checkbox"/> Evapotranspiration beds |
| <input type="checkbox"/> Other (describe in detail): | |

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number:

Section 2. Land Application Site(s) (Instructions Page 67)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

| Crop Type & Land Use | Irrigation Area (acres) | Effluent Application (GPD) | Public Access? Y/N |
|--|-------------------------|----------------------------|--------------------|
| Bermuda Grass and Winter Rye (Phase 1) Use: Community Green Space | 9.18 | 40,000 | Y |
| Bermuda Grass and Winter Rye (Final Phase) Use: Community Green Space | 14.07 | 61,280 | Y |
| | | | |
| | | | |
| | | | |
| | | | |

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

Table 3.0(2) – Storage and Evaporation Ponds

| Pond Number | Surface Area (acres) | Storage Volume (acre-feet) | Dimensions | Liner Type |
|--------------|----------------------|----------------------------|------------|------------|
| Storage Tank | N/A | 0.56 | N/A | N/A |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment:

Section 4. Flood and Runoff Protection (Instructions Page 67)

Is the land application site within the 100-year frequency flood level?

☐ Yes ☒ No

If yes, describe how the site will be protected from inundation.

Provide the source used to determine the 100-year frequency flood level:

FEMA NFHL Viewer: 48453C0555J

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

The land application site will be protected from inundation by swales and other constructed landforms to direct water away from the land application site.

Section 5. Annual Cropping Plan (Instructions Page 67)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment:** Annual Cropping Plan

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment:** USGS Map

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1-mile radius of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

| Well ID | Well Use | Producing? Y/N | Open, cased, capped, or plugged? | Proposed Best Management Practice |
|---------------------------|----------|-------------------|-------------------------------------|--------------------------------------|
| See Well ID Attachment | | | | |
| | | | | |
| | | | | |
| | | | | |

| Well ID | Well Use | Producing? Y/N | Open, cased, capped, or plugged? | Proposed Best Management Practice |
|---------|----------|-------------------|-------------------------------------|--------------------------------------|
| | | | | |

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: Well ID Attachment

Section 7. Groundwater Quality (Instructions Page 68)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: Groundwater Quality Report

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? ☐ Yes ☒ No

If yes, provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment:

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: USDA Report

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note:** for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: Soil Analysis

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) – Soil Data

| Soil Series | Depth from Surface | Permeability | Available Water Capacity | Curve Number |
|-----------------|--------------------------|--------------|--------------------------------|-----------------|
| See USDA Report | | | | |
| | | | | |
| | | | | |
| | | | | |

| Date | 30 Day Avg Flow MGD | BOD5 mg/l | TSS mg/l | pH | Chlorine Residual mg/l | Acres irrigated |
|------|------------------------|--------------|-------------|----|---------------------------|--------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

The following is **required** for **new and major amendment** subsurface area drip dispersal system permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal **MUST** complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **meets** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System*.

Section 1. Administrative Information (Instructions Page 74)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☒ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

C. Owner of the subsurface area drip dispersal system: Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☒ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

E. Owner of the land where the subsurface area drip dispersal system is located: Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☒ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 74)

A. Type of system

- ☒ Subsurface Drip Irrigation
☐ Surface Drip Irrigation
☐ Other, specify:

B. Irrigation operations

Application area, in acres: 14.07

Infiltration Rate, in inches/hour: 1.02

Average slope of the application area, percent (%): 1-5

Maximum slope of the application area, percent (%): 5-8

Storage volume, in gallons: 183,840

Major soil series: D

Depth to groundwater, in feet: min 7 ft

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☒ Yes ☐ No

If **yes**, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☒ No

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☒ No

Hydraulic application rate, in gal/square foot/day: See Engineering Report

Nitrogen application rate, in lbs/gal/day: See Engineering Report

D. Dosing information

Number of doses per day: 96

Dosing duration per area, in hours: 0.017 i.e. 1 min

Rest period between doses, in hours: 0.25 i.e. 15 mins

Dosing amount per area, in inches/day: 0.16

Number of zones: 12

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☒ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment:

Section 3. Required Plans (Instructions Page 74)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79*.

Attachment: Recharge Feature Plan

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73*.

Attachment: Soils Analysis

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75*.

Attachment: Site Preparation Plan and Engineering Report

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157*.

Attachment: Soils Analysis and Engineering Report

Section 4. Floodway Designation (Instructions Page 75)

A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☒ No

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: FEMA Map

Section 5. Surface Waters in the State (Instructions Page 75)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: USGS Map

B. Buffer variance request

Do you plan to request a buffer variance from water wells or waters in the state?

☐ Yes ☒ No

If **yes**, then attach the additional information required in *30 TAC § 222.81(c)*.

Attachment:

Section 6. Edwards Aquifer (Instructions Page 75)

A. Is the SADDs located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☒ No

B. Is the SADDs located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☒ No

If **yes to either question**, then the SADDs may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only

Reg. No. _____

Date Received _____

Date Authorized _____

Section 1. General Information (Instructions Page 90)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.):

Program ID:

Contact Name:

Phone Number:

2. Agent/Consultant Contact Information

Contact Name:

Address:

City, State, and Zip Code:

Phone Number:

3. Owner/Operator Contact Information

☒ Owner ☐ Operator

Owner/Operator Name: Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC

Contact Name: Elizabeth Good

Address: 508 Powell St

City, State, and Zip Code: Austin, TX 78703

Phone Number: (512) 983-1337

4. Facility Contact Information

Facility Name: SW Oaks WWTF

Address:

City, State, and Zip Code: near Dripping Springs, TX 78737

Location description (if no address is available): 0.65 miles northwest from the intersection of Hwy 290 and Rim Rock Trail

Facility Contact Person:

Phone Number:

5. **Latitude and Longitude, in degrees-minutes-seconds**

Latitude: 30.2180

Longitude: -97.9783

Method of determination (GPS, TOPO, etc.): GPS

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☒ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify:

Number of Injection Wells:

7. **Purpose**

Detailed Description regarding purpose of Injection System:

| |
|------------------------------|
| Disposal of treated effluent |
|------------------------------|

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name:

City, State, and Zip Code:

Phone Number:

License Number:

Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

Table 6.0(1) – Down Hole Design Table

| Name of String | Size | Setting Depth | Sacks Cement/Grout – Slurry Volume – Top of Cement | Hole Size | Weight (lbs/ft) PVC/Steel |
|----------------|------|---------------|--|-----------|---------------------------|
| Casing | | | | | |
| Tubing | | | | | |
| Screen | | | | | |

Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions:

System(s) Construction:

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer:
2. Receiving Formation Name of Injection Zone:
3. Well/Trench Total Depth:
4. Surface Elevation:
5. Depth to Ground Water:
6. Injection Zone Depth:
7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No
Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:
Name:
Thickness:
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer
Attach as Attachment E.
9. Horizontal and Vertical extent of contamination and injection plume
Attach as Attachment F.
10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.
Attach as Attachment G.
11. Injection Fluid Chemistry in PPM at point of injection
Attach as Attachment H.
12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS:
13. Maximum injection Rate/Volume/Pressure:
14. Water wells within 1/4 mile radius (attach map as Attachment I):
15. Injection wells within 1/4 mile radius (attach map as Attachment J):
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K):
17. Sampling frequency:
18. Known hazardous components in injection fluid:

Section 5. Site History

1. Type of Facility:
2. Contamination Dates:
3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L):
4. Previous Remediation (attach results of any previous remediation as attachment M):

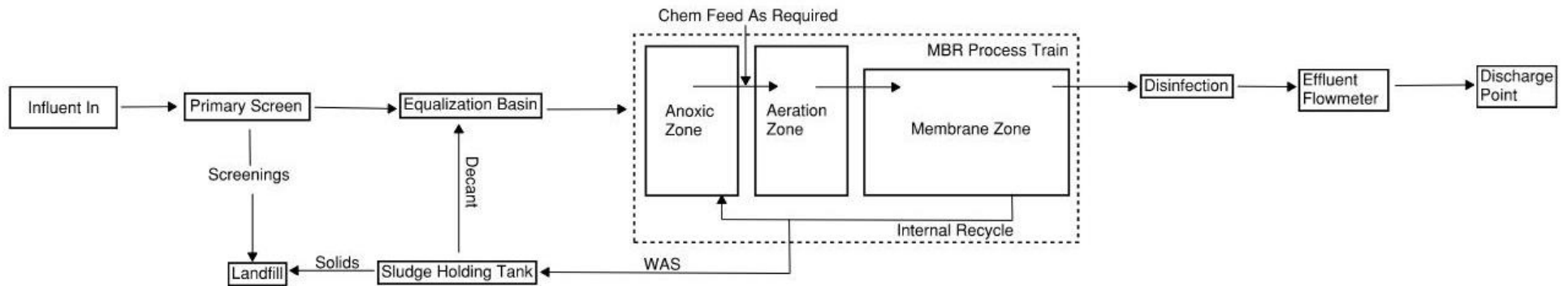
NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

Class V Injection Well Designations

- 5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
- 5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
- 5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
- 5D02 Storm Water Drainage (IW designed for the disposal of rain water)
- 5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
- 5F01 Agricultural Drainage (IW that receive agricultural runoff)
- 5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
- 5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
- 5W09 Untreated Sewage
- 5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
- 5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
- 5W12 WTP disposal
- 5W20 Industrial Process Waste Disposal Wells
- 5W31 Septic System (Well Disposal method)
- 5W32 Septic System Drainfield Disposal
- 5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
- 5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
- 5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
- 5X27 Other Wells
- 5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
- 5X29 Abandoned Drinking Water Wells (waste disposal)

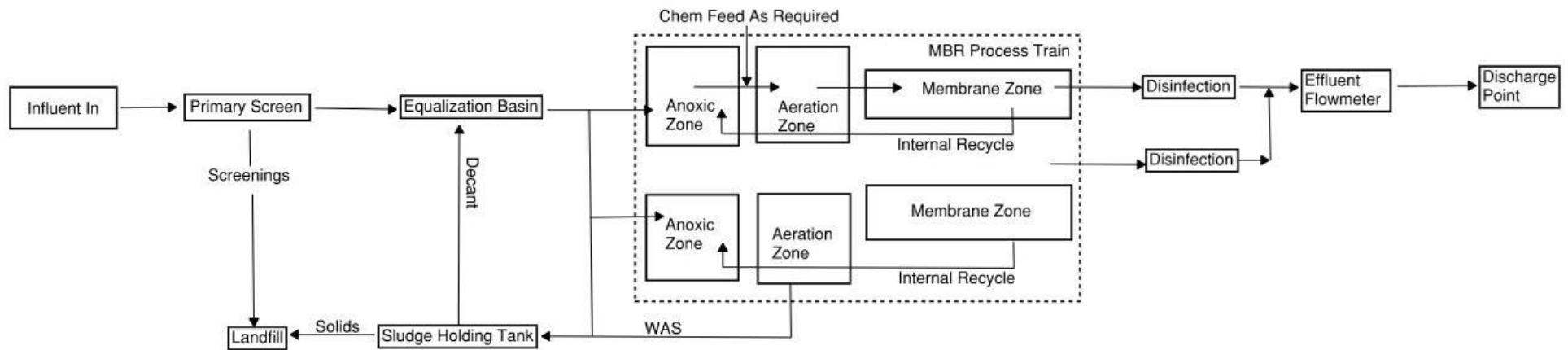
SW Oaks WWTF - Process Description

Phase 1 – 40,000 gpd



SW Oaks WWTF - Process Description

Final Phase – 61,280 gpd



SW Oaks WWTF

Treatment Unit Sizing and Process Description

Treatment Process Description

SW Oaks WWTF will be an MBR system consisting of several process trains. The system will have a primary screen, equalization tanks, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize UV or Chlorine disinfection. The design will be in accordance with Texas Administrative Code Title 30, Part 1: Texas Commission on Environmental Quality (TCEQ) Chapter 217 (Design Criteria for Domestic Wastewater Systems).

Treatment Unit Sizing

Phase 1 – 40,000 GPD

| | |
|--------------------------|-------------------------------------|
| Headworks with Screening | |
| Equalization Tank | (1) 10' x 12' x 10' SWD – 8,976 gal |
| Sludge Holding Tank | (1) 12' dia x 10' SWD – 8,455 gal |
| Process Units (MBR) | (1) 40' x 10' x 8' SWD – 23,936 gal |
| Chlorine Contact Chamber | (1) 6' x 10' x 5' SWD – 2,244 gal |

Final Phase – 61,280 GPD

| | |
|--------------------------|--|
| Headworks with Screening | |
| Equalization Tank | (2) 10' x 12' x 10' SWD – 17,952 gal |
| Sludge Holding Tank | (2) 12' dia x 10' SWD – 16,910 gal |
| Process Units (MBR) | (1) 40' x 10' x 8' SWD – 23,936 gal (1) 20' x 10' x 8' SWD – 11,968 gal |
| Chlorine Contact Chamber | (2) 6' x 10' x 5' SWD – 4,488 gal |

SW Oaks WWTF - Design Calculations

Phase 1

Flow 40,000 gpd
2 hr peak 160,000 gpd

Equalization Sizing Minimum
2.5Q for 2 hours 8,333 gal

Chlorine Sizing Minimum
4Q for 20 min 2,222 gal

Using 2% Flow for WAS Rate

WAS Rate 800 gpd

Sludge Storage Days 10 days
Sludge Holding Minimum 8000 gal

Final Phase

Flow 61,280 gpd
2 hr peak 245,120 gpd

Equalization Sizing Minimum
2.5Q for 2 hours 12,767 gal

Chlorine Sizing Minimum
4Q for 20 min 3,404 gal

Using 2% Flow for WAS Rate

WAS Rate 1225.6 gpd

Sludge Storage Days 10 days
Sludge Holding Minimum 12256 gal

SW Oaks WWTF - Design Calculations

| Bioreactor Calculation | | | | | | | |
|---|------------------------------|--------------------|---------|------------------------------------|---------------|-------------------|---------|
| 1. Design Calculation | | | | | | | |
| 1.1 Influent (m3/day) | | | | 1.2 Factors | | | |
| Items | unit | m3/day | gal/day | Items | HRT | 19.0 | hr |
| | Average | 232 | 61,280 | | SRT | 25.0 | day |
| | | | | | C/N | 4.7 | |
| | Design Flow | 232 | 61,280 | | C/P | 29.6 | |
| | | | | | Temp | 20.0 | °C |
| | | | | | Sludge return | 250 | % |
| 1.3 Influent Quality | | | | | | | |
| Items | BOD | COD _{Mn} | SS | T-N | T-P | E.coli. | Remarks |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (Count/mL) | |
| Water quality | 350.0 | 525.0 | 300.0 | 70.0 | 9.0 | 55000 | |
| 1.4 Influent and Effluent Water Quality | | | | | | | |
| Items | BOD | COD _{Mn} | SS | T-N | T-P | E.coli. | |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (Count/mL) | |
| Influent quality | 350.0 | 525.0 | 300.0 | 70.0 | 9.0 | 55,000 | |
| Effluent quality | 5.0 | 10.0 | 5.0 | 20.0 | 1.0 | 1.26 | |
| 1.5 Bioreactor Volume | | | | | | | |
| Items | Width | Length | Depth | Height | tank | Volume | HRT |
| | (mW) | (mL) | (mHe) | (mH) | (#) | (m ³) | (hr) |
| Anoxic | 2.4 | 12.0 | 2.2 | 2.3 | 2 | 124.1 | 7.9 |
| Oxic | 2.4 | 12.0 | 2.1 | 2.3 | 2 | 118.4 | 7.5 |
| MBR | 2.4 | 12.0 | 2.0 | 2.3 | 1 | 56.4 | 3.6 |
| Total | | | | | | 363.8 | 19.0 |
| Note: If bioreactor volume sizes are above the volume calcauted by 30-40%, it will be okay. | | | | | | | |
| 1.6 Sludge Production | | | | 1.7 Air Requirement | | | |
| Items | Sludge (m ³ /day) | Water contents (%) | Items | Oxic reactor (m ³ /min) | 3.11 | | |
| | 6.0 | 99.2 | | MBR (m ³ /min) | 12.0 | | |

SW Oaks WWTF - Design Calculations

2 MASS BALANCE

(Q = 232 m³/day)

61,280 GPD

Temp.: 20 °C
68 F

| Influent | | |
|----------|--------|----------|
| Q | 232 | |
| BOD | 350.0 | 132.5 |
| COD | 525.0 | 198.7 |
| SS | 300.0 | 113.6 |
| T-N | 70.0 | 26.5 |
| T-P | 9.0 | 3.4 |
| E.Coli | 55,000 | Count/ml |

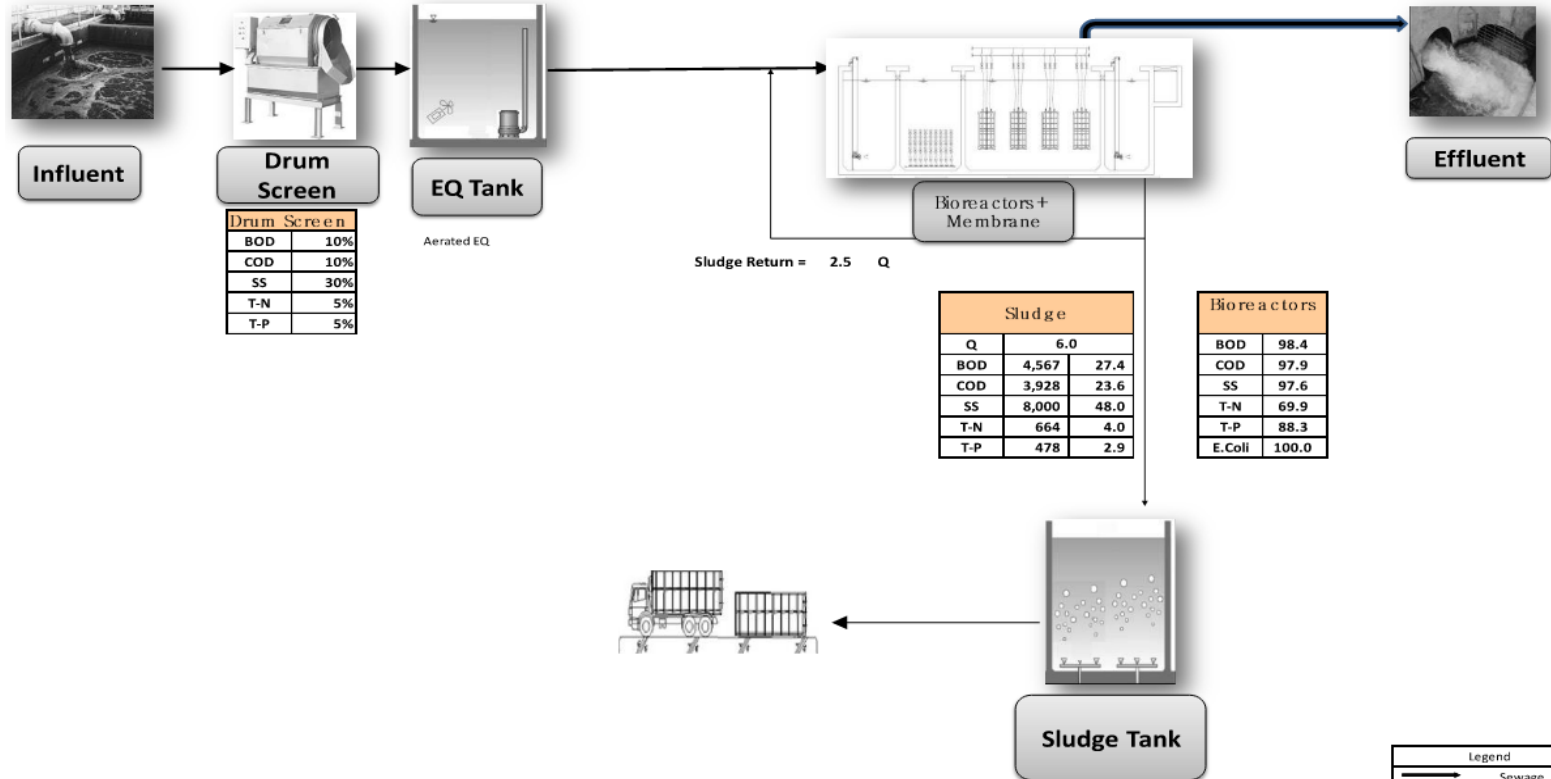
| EQ Tank | | |
|---------|--------|----------|
| Q | 232 | |
| BOD | 315.0 | 119.2 |
| COD | 472.5 | 178.8 |
| SS | 210.0 | 79.5 |
| T-N | 66.5 | 25.2 |
| T-P | 8.6 | 3.2 |
| E.Coli | 55,000 | Count/ml |

| Bioreactors | | |
|-------------|--------|----------|
| Q | 232 | |
| BOD | 315.0 | 119.2 |
| COD | 472.5 | 178.8 |
| SS | 210.0 | 79.5 |
| T-N | 66.5 | 25.2 |
| T-P | 8.6 | 3.2 |
| E.Coli | 55,000 | Count/ml |

| Factors | |
|---------|-------|
| MLSS | 5,800 |
| | 5,800 |
| | 8,000 |
| F/M | 0.06 |
| TEMP. | 20 |
| SRT | 42.6 |
| MLVSS | 0.69 |
| FLUX | 0.4 |

| Effluent | | |
|----------|------|----------|
| Q | 232 | |
| BOD | 5.0 | 1.9 |
| COD | 10.0 | 3.7 |
| SS | 5.0 | 1.9 |
| T-N | 20.0 | 7.5 |
| T-P | 1.0 | 0.4 |
| E.Coli | 1 | Count/ml |

| Reuse | | |
|--------|------|----------|
| Q | 232 | |
| BOD | 5.0 | 1.9 |
| COD | 10.0 | 3.7 |
| SS | 5.0 | 1.9 |
| T-N | 20.0 | 7.5 |
| T-P | 1.0 | 0.4 |
| E.Coli | 1 | Count/ml |



SW Oaks WWTF - Design Calculations

| Items | Ranges | | | Design Values | Unit |
|---|--------|---|--------|---------------|--|
| Anoxic/Oxic MLSS (X_{TSS}) | 4,000 | ~ | 9,500 | 5,800 | mg/L |
| Oxic MLSS (X_{OX}) | 6,000 | ~ | 12,000 | 8,000 | mg/L |
| MLVSS/MLSS(X_V) | MLVSS | / | MLSS | 0.7 | |
| F/M ration | 0.01 | ~ | 0.30 | 0.06 | kgBOD/kgMLVSS-d |
| Sludge return (X_{r1}) | 50 | ~ | 400 | 250 | % |
| Sludge retention time (SRT) | 15 | ~ | 50 | 35.6 | day |
| Bio reactor temperature | 10 | ~ | 30 | 20 | °C |
| Bio reactor pH | 6.8 | ~ | 7.2 | 7.0 | |
| Dissolved Oxygen concentration (DO) | 2.0 | ~ | 5.0 | 2.0 | mg/L |
| Y(net), Sludge yield | 0.30 | ~ | 0.60 | 0.47 | mgVSS/mgBOD _{rem} |
| b, Sludge decay coefficient | 0.05 | ~ | 0.30 | 0.15 | day ⁻¹ |
| μ_{Nmv} , Max nitrifier production | 0.30 | ~ | 0.60 | 0.47 | day ⁻¹ |
| Y _N (net), Nitrifier yield | 0.10 | ~ | 0.30 | 0.20 | mgVSS/mgNH ₄ N _{rem} |
| K _{O₂} , O ₂ Half saturation coefficient | 0.40 | ~ | 0.60 | 0.50 | O ₂ mg/L |
| K _N NH ₄ -N Half saturation coefficient | 0.20 | ~ | 5.00 | 0.74 | NH ₄ -N mg/L |
| Membrane Flux | Design | | | 0.40 | m ³ /m ² ·d |
| | | | | 16.7 | LMH |
| | | | | 9.8 | GFD |
| SNR, Specific Nitrification Rate | Oxic | | | 2.70 | mgNH ₄ N/gMLVSS·hr |
| SDNR, Specific denitrification Rate | | | | 2.70 | mgNO ₃ N/gMLVSS·hr |
| SPUR | | | | 1.24 | mg P/gMLSS·hr |
| BOD/P _{rel} | | | | 12.0 | P releasing |
| BOD/No _x -N _{rem} | | | | 2.86 | Denitrification |
| N/VSS, Nitrogen % in Biomass | 5.00 | ~ | 12.0 | 12.0 | % |
| P/VSS, Phosphorus % in Biomass | 1.00 | ~ | 7.50 | 5.8 | P uptaking (%) |

SW Oaks WWTF – Solids Management Plan

The permit application includes three phases of flows as described below:

- Phase 1 = 0.04 MGD
- Final Phase = 0.06128 MGD

Estimated solids generation is based on the below listed criteria:

- Average Influent BOD = 350 mg/L
- Design Influent BOD = 350 mg/L
- Solids Generated = 0.98 Pound Solids per Pound of BOD applied
- Calculations are based on the average influent BOD, as stipulated in Chapter 217.250 for firm dewatering capacity.

(a) Operating range for the mixed liquor suspended solids in the treatment process based on design flow and projected actual flow at the facility.

| Phase # | Operating Range (mg/L) |
|-------------|------------------------|
| Phase 1 | 8,000 – 12,000 |
| Final Phase | 8,000 – 12,000 |

(b) Description of the procedure and method of solids removal from both wastewater and sludge treatment processes.

The sludge wasting pumps will convey sludge from the treatment basins to the sludge holding basin in final phase. The sludge wasting pumps will be operated manually by the operator. The sludge holding basins/tanks will be pumped as a semi-liquid onto a transport truck where it will be taken to a permitted landfill.

(c) Quantity of solids to be removed from the process and schedule for removal of solids designed to maintain an appropriate solids inventory.

Solids will be removed from the sludge holding basin on a 10-day rotation during final phase. SW Oaks WWTF currently does not plan to process waste activated sludge from other wastewater treatment plants in liquid or cake form through its sludge processing facilities.

Solids Generated at 100, 75, 50, and 25 percent Design Flow:

Phase 1: 0.04 MGD

100% Flow: Solids Generation = $(350 \text{ mg/l})(0.04\text{MGD})(8.34 \text{ lb/mg})(0.98) = 114 \text{ lb/day}$

75% Flow: Solids Generation = $(350 \text{ mg/l})(0.03\text{MGD})(8.34 \text{ lb/mg})(0.98) = 86 \text{ lb/day}$

50% Flow: Solids Generation = $(350 \text{ mg/l})(0.02\text{MGD})(8.34 \text{ lb/mg})(0.98) = 57 \text{ lb/day}$

25% Flow: Solids Generation = $(350 \text{ mg/l})(0.01\text{MGD})(8.34 \text{ lb/mg})(0.98) = 29 \text{ lb/day}$

Final Phase: 0.06128 MGD

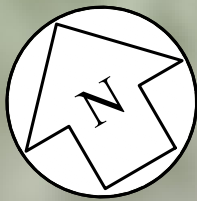
100% Flow: Solids Generation = $(350 \text{ mg/l})(0.06128\text{MGD})(8.34 \text{ lb/mg})(0.98) = 175 \text{ lb/day}$

75% Flow: Solids Generation = $(350 \text{ mg/l})(0.04596\text{MGD})(8.34 \text{ lb/mg})(0.98) = 131 \text{ lb/day}$

50% Flow: Solids Generation = $(350 \text{ mg/l})(0.03064\text{MGD})(8.34 \text{ lb/mg})(0.98) = 88 \text{ lb/day}$

25% Flow: Solids Generation = $(350 \text{ mg/l})(0.01532\text{MGD})(8.34 \text{ lb/mg})(0.98) = 44 \text{ lb/day}$

SW Oaks WWTF - Buffer Zone Map



150' BUFFER ZONE

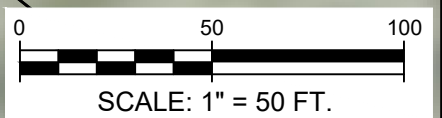
EFFLUENT STORAGE TANK
3-DAY CAPACITY

WWTF

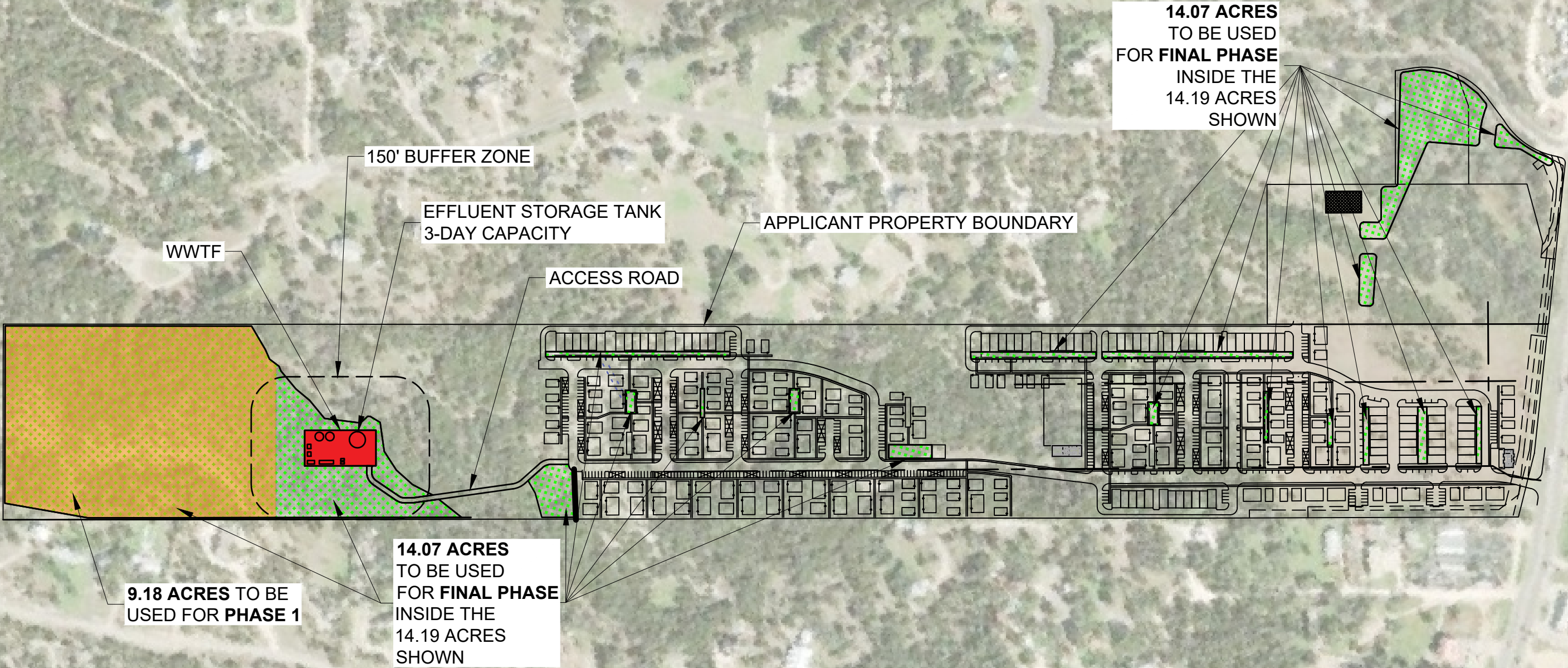
DISPOSAL AREA HATCH

ACCESS ROAD

APPLICANT PROPERTY LINE



SW Oaks WWTF - Disposal Phasing Map

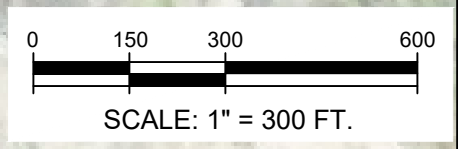
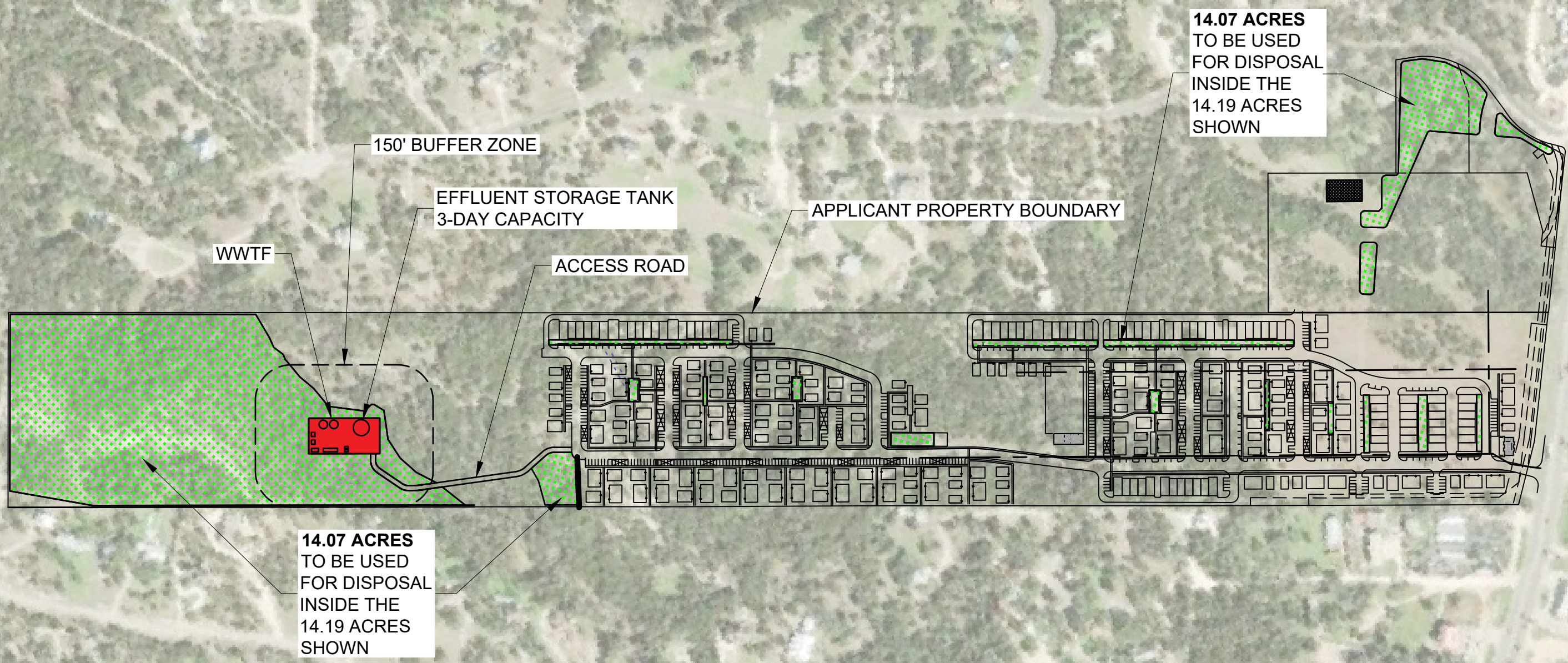
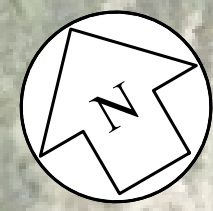


| DISPOSAL AREA SUMMARY | | |
|-----------------------|------------|-------------|
| | FLOW | AREA |
| PHASE 1 | 40,000 GPD | 9.18 ACRES |
| FINAL PHASE | 61,280 GPD | 14.07 ACRES |

NOTE: TOTAL AREA HIGHLIGHTED IS 14.19 ACRES



SW Oaks WWTF - Site Map



SW Oaks WWTF - Original Photos Map

150' BUFFER ZONE

EFFLUENT STORAGE TANK
3-DAY CAPACITY

ACCESS ROAD

WWTF

APPLICANT PROPERTY BOUNDARY

14.07 ACRES
TO BE USED
FOR DISPOSAL
INSIDE THE
14.19 ACRES
SHOWN

14.07 ACRES
TO BE USED
FOR DISPOSAL
INSIDE THE
14.19 ACRES
SHOWN

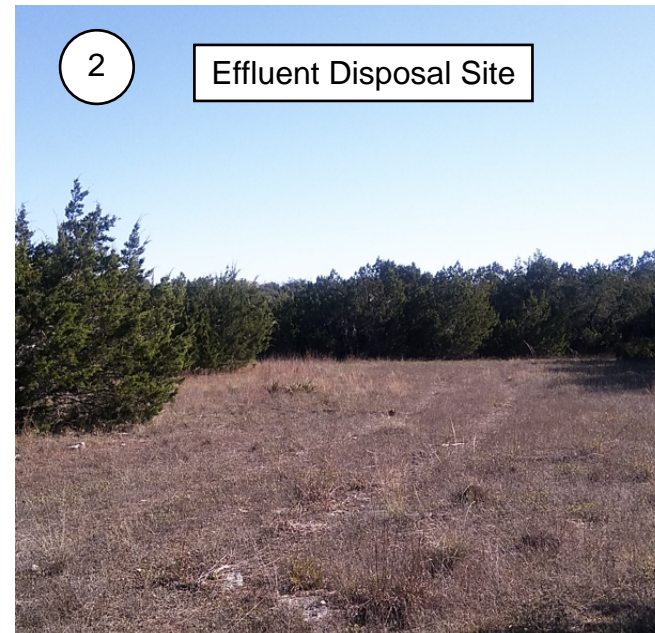
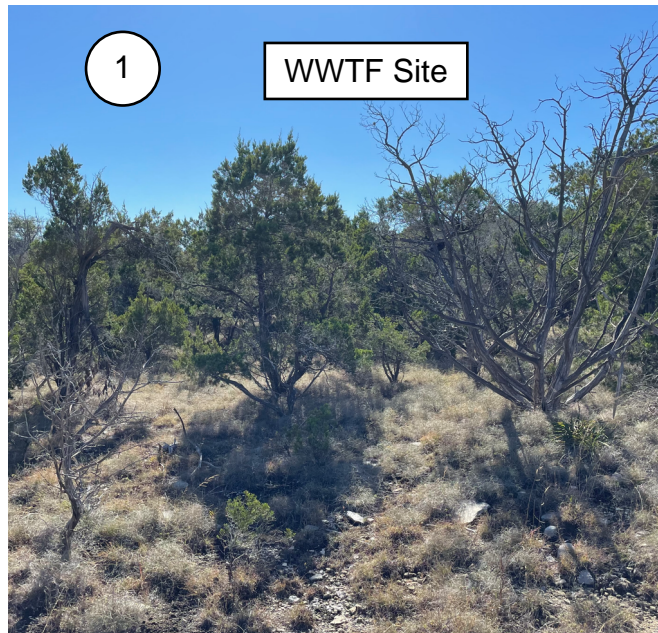
0 150 300 600

SCALE: 1" = 300 FT.

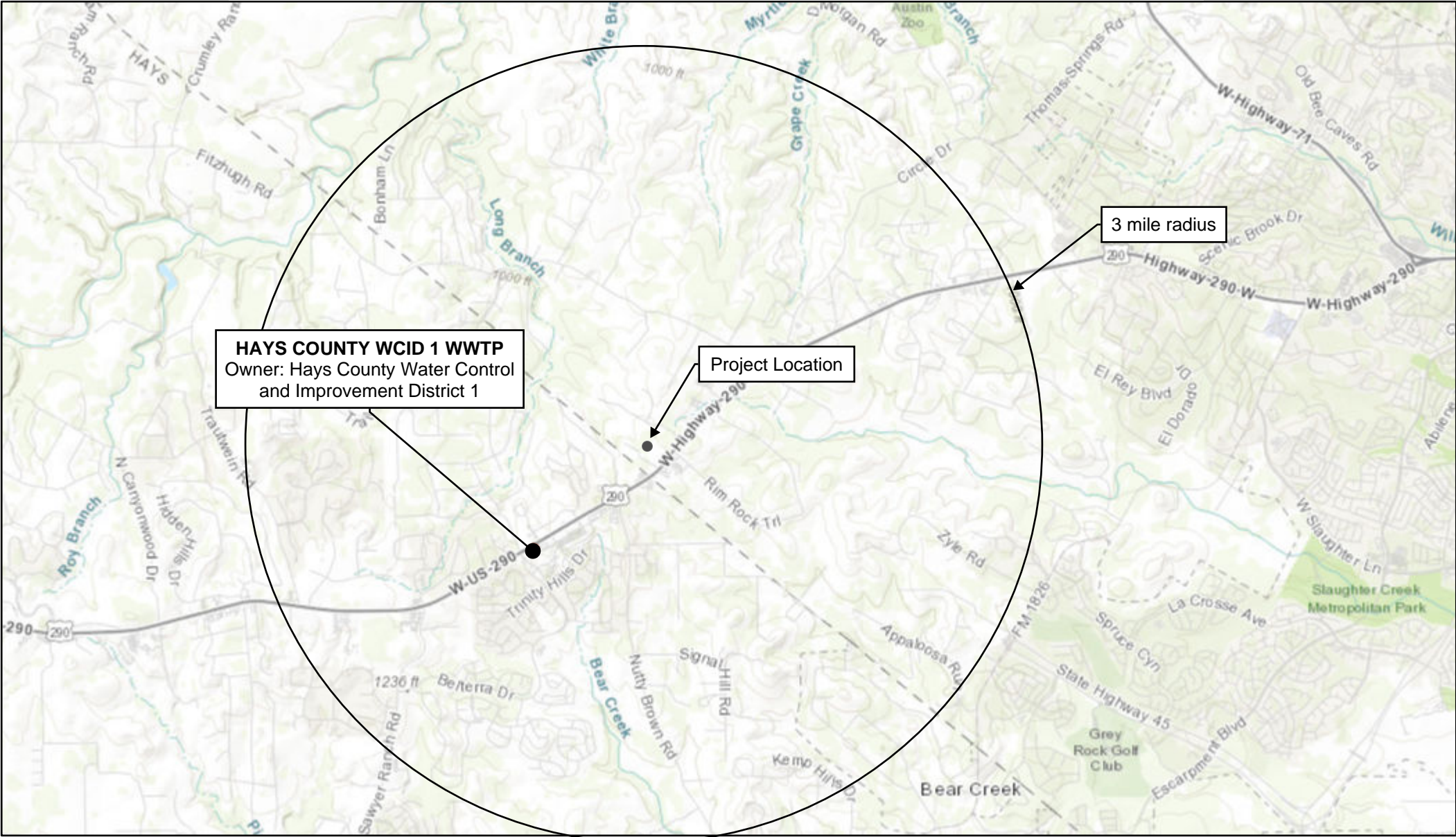
j & a
WASTEWATER

C:\Users\JanelaRevilla\DC\ACCDocs\JAWastewater\176 - Good and West Permitting\Project Files\DWGs\EXHIBIT-SITE LAYOUTworking.dwg, 1/6/2025 4:13 PM Janela Revilla

SW Oaks WWTF - Original Photos

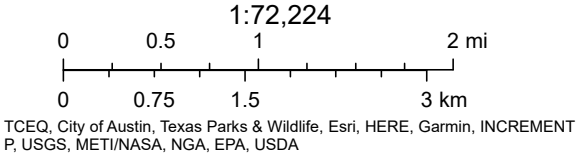


SW Oaks WWTF - Nearby Facilities



11/21/2024, 2:15:08 PM

● Wastewater Outfalls





January 2025

3321 Bee Caves Rd Ste 203
West Lake Hills, TX 78746 -7067

Subject: Hays County WCID 1 WWTP

To Whom it May Concern,

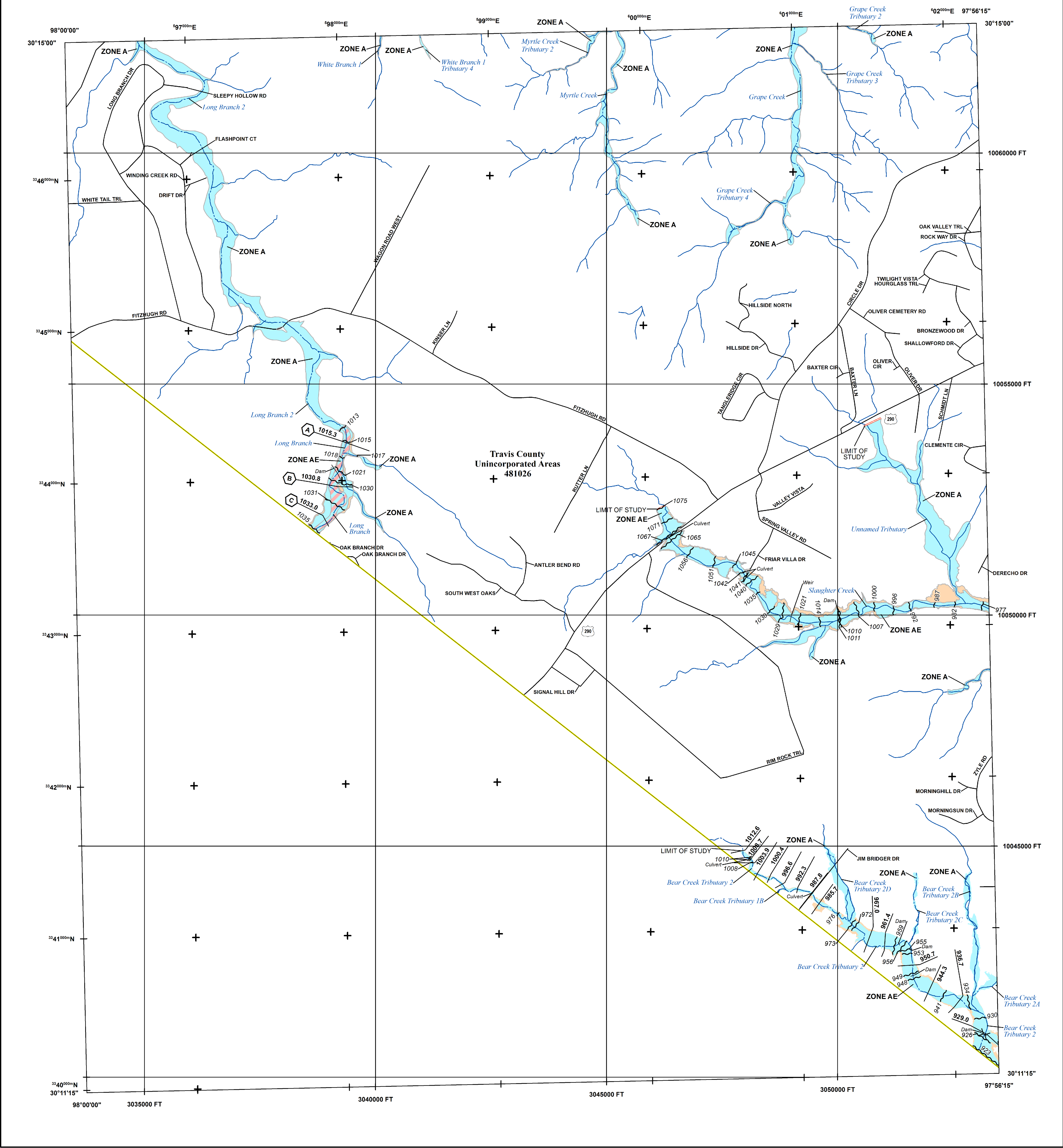
Good and West Acquisitions, LLC and SWOAKS290 Holding, LLC are applying for a TLAP permit and is located within three miles of the Hays County WCID 1 WWTP. It is our understanding that the Hays County WCID 1 WWTP may not have the capacity and doesn't have the infrastructure (collection system) to accept waste from the new proposed subdivision. Please confirm in writing at your earliest convenience.

Sincerely,

A handwritten signature in dark ink that reads 'Jamie L. Miller'.

Jamie L. Miller, P.E.
President
JA Wastewater
3410 Far West Blvd, Suite 170
Austin, TX 78731
Firm Number F-23372

SW Oaks WWTF - FEMA Map



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTPS://MSC.FEMA.GOV](https://msc.fema.gov)

| | | |
|-----------------------------|--|---|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE) Zone A,V, A99 |
| | | With BFE or Depth Zone AE, AO, AH, VE, AR |
| OTHER AREAS OF FLOOD HAZARD | | Regulatory Floodway |
| | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
| | | Future Conditions 1% Annual Chance Flood Hazard Zone X |
| | | Area with Reduced Flood Risk due to Levee See Notes. Zone X |
| OTHER AREAS | | Area with Flood Risk due to Levee Zone D |
| | | NO SCREEN Area of Minimal Flood Hazard Zone X |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard Zone D |
| | | Channel, Culvert, or Storm Sewer |
| OTHER FEATURES | | Levee, Dike, or Floodwall |
| | | Cross Sections with 1% Annual Chance Water Surface Elevation |
| OTHER FEATURES | | Coastal Transect |
| | | Coastal Transect Baseline |
| OTHER FEATURES | | Profile Baseline |
| | | Hydrographic Feature |
| OTHER FEATURES | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| OTHER FEATURES | | Jurisdiction Boundary |

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at <https://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

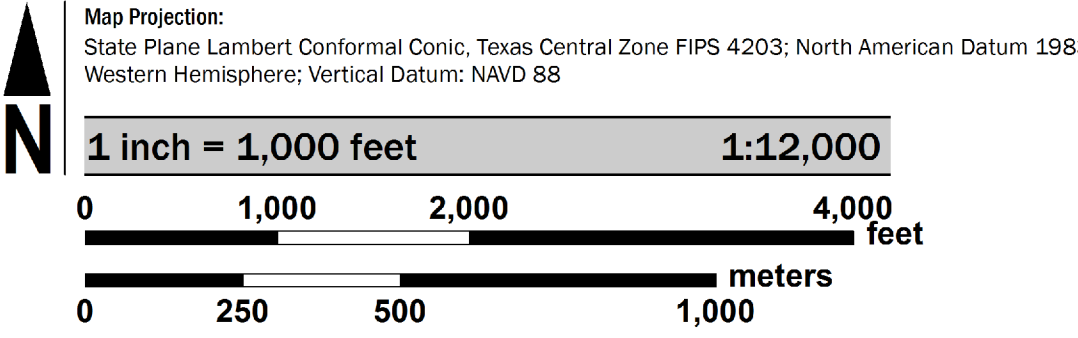
Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was derived from digital data obtained from City of Austin dated 2016, NFHL dated 2014, and CAPCOG dated 2014 and 2016.

SCALE



PANEL LOCATOR



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

TRAVIS COUNTY, TEXAS
and Incorporated Areas

PANEL 555 OF 730

Panel Contains:
COMMUNITY
TRAVIS COUNTY

NUMBER PANEL SUFFIX
481026 0555 J

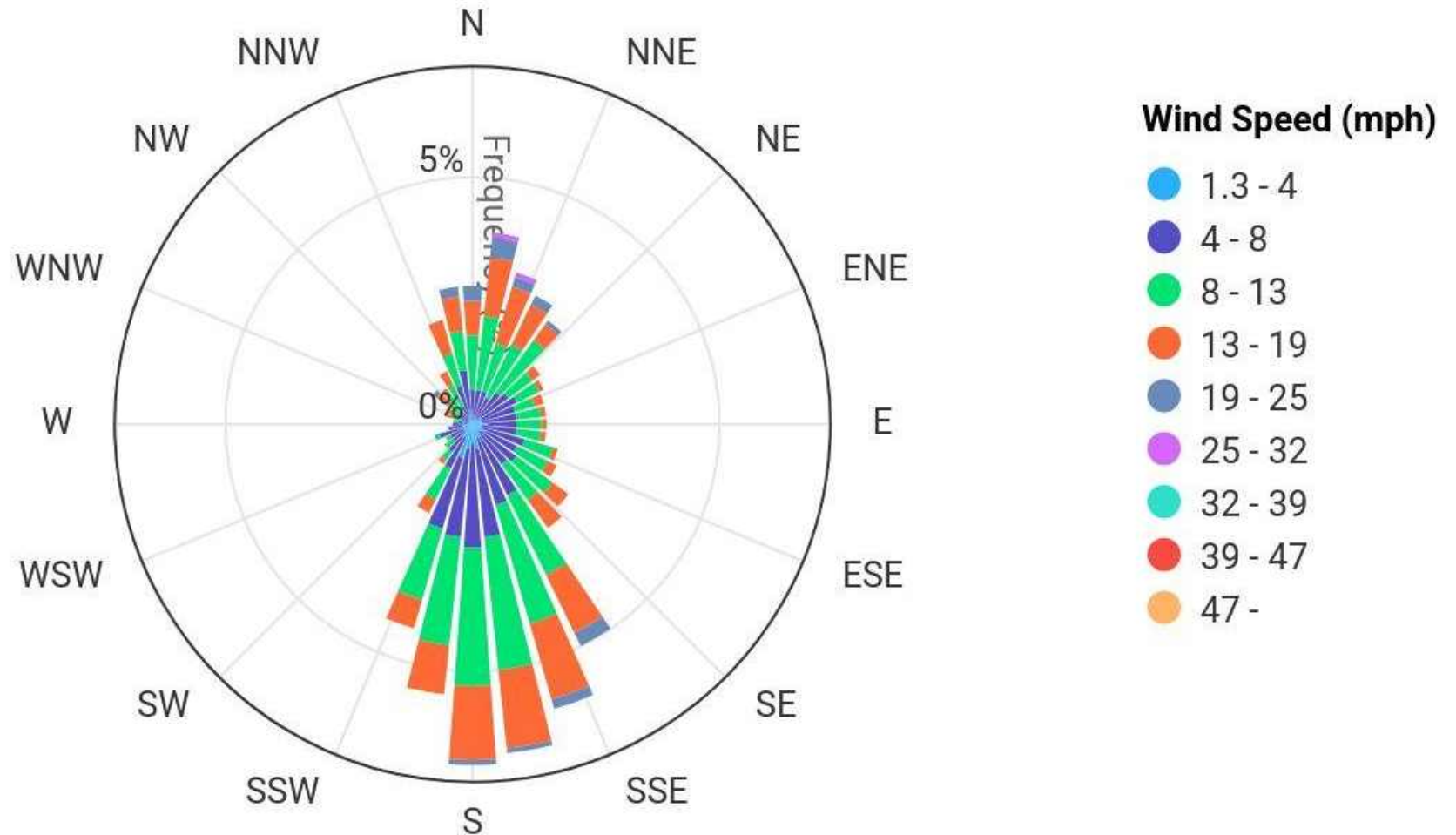
VERSION NUMBER
2.3.3.3

MAP NUMBER
48453C055J

MAP REVISED
JANUARY 22, 2020

AUSTIN BERGSTROM INTL AP (TX) Wind Rose

November 01, 2023 - November 01, 2024
Sub-Interval: January 1 - December 31, 0 - 24



SW Oaks WWTF – Annual Cropping Plan

a. Soils map depicting the location of the crops proposed or currently being grown. These locations should be identified by field and crop on the soils map.

A USDA Soils Map has been provided with the permit application.

b. All types of crops and acreage irrigated for each crop, including warm and cool season crops.

14.07 acres will be seeded with Bermuda and winter rye grasses.

c. Crop yield goals or estimates.

Yield estimate: Bermuda grass will produce about 1 ton per acre with no applied fertilizer. Winter Rye produces 2 to 3 tons per acres.

d. Growing seasons for each crop including months the field is left fallow (no crops).

Growing season for Bermuda grass is from April through September. The growing season for winter rye is October through March, the fields are never left fallow.

e. Nutrient requirements for each crop, including additional fertilizer requirements for each crop, proposed additional fertilizer applications for each crop, and methods of fertilizer application for each crop, based on annual soil sampling and analysis.

The proposed design total nitrogen loading rate is 1.08 lb/acre/day or 394 lb/acre/year. Bermuda grass can utilize large amounts of nitrogen, with excellent yield response at 400 lbs/ acre/ year. (See Nutrient Demand High in Bermudagrass by Darst, et al. 1996). To most effectively use nitrogen, other nutrients are required such as phosphorus and potassium. These nutrient levels will be monitored through annual soil analysis and supplemented if required. Additional fertilizer is not anticipated but a manual spreader would be used if needed.

f. Provide the minimum and maximum harvest height for the crop (e.g. mowing height of grasses).

Minimum mowing height will be such that the grass is not scorched, approximately 3". The maximum growing height will be determined by the operator, 18" is anticipated maximum height prior to mowing.

g. Supplemental watering requirements for each crop.

No supplemental watering is anticipated.

h. Salt tolerances of each crop.

Bermuda grass is highly salt tolerant, winter rye is considered to be intermediate in salt tolerance.

i. Describe the harvesting method and the proposed number of harvests for each crop.

The irrigation fields will be regularly mowed with clippings hauled off.

j. If the proposed crop is existing native vegetation that will not be harvested, include a justification that the non-removal of crops will not lead to a buildup in nutrients. If the proposed system is drip irrigation with a proposal to use the existing forested vegetation as a crop, then provide a vegetation survey by a certified arborist describing at a minimum: (1) the number of mature ashe juniper (*Juniperus ashei*) and oaks (*Quercus virginiana*) trees per acre, (2) the

SW Oaks WWTF – Annual Cropping Plan

number of other trees per acre, (3) percent of overstory canopy cover, (4) the extent of open spaces, and (5) areas with forbs and grasses expressed as percent of the land of each application site. A mature tree is one with a minimum height of 14 feet.

N/A

SW Oaks WWTF – Engineering Report

Background

SW Oaks WWTF is a proposed wastewater treatment facility located in Travis County, Texas. The facility is seeking a Texas Land Application Permit (TLAP) to dispose of 61,280 gallons per day at full buildout of treated, domestic strength wastewater via a subsurface area drip dispersal system.

Site Location

The facility is located approximately 0.65 miles northwest from the intersection of Hwy 290 and Rim Rock Trail near the city of Dripping Springs, Travis County, Texas 78737. A 7.5-minute topographic map has been included with this report.

Site Drawing

A site drawing showing the wastewater facility, effluent storage tank, 150' buffer zone is included with this report.

Geology/Soils

The proposed site does not have any notable geologic features like caves, faults, or sinkholes. A USDA Soils Report has been included with this report.

Groundwater Quality

The minimum required buffer zone from the existing water wells will be met. Prior to being conveyed to the disposal areas, the treated effluent will be stored in a leak-proof tank. The wastewater effluent is used to irrigate publicly accessible areas. The effluent applied to the land has a maximum application rate, as a permit limit, to ensure the effluent is taken up by the crop root systems. The agronomic application rate ensures that potential contaminants do not migrate below the root zone. A USGS map showing the water wells and a water well reference list are included with this application.

Agricultural Practice

The facility will use an application rate of 0.1 gallons/square foot/day. A disposal area of 14.07 acres will be required for the full buildout flow of 61,280 gallons per day. The disposal areas will be seeded with Bermuda and winter rye grasses. The growing season for Bermuda grass is from April to October. Growing season for winter rye is November through March, the fields are never left fallow. The proposed design total nitrogen loading rate is 1.08 lb/acre/day or 394 lb/acre/year. Bermuda grass can utilize large amounts of nitrogen, with excellent yield response at 400 lbs/acre/ year. (See Nutrient Demand High in Bermudagrass by Darst, et al. 1996). To most effectively use nitrogen, other nutrients are required such as phosphorus and potassium. These nutrient levels will be monitored through periodic soil analysis and supplemented if required. Additional fertilizer is not anticipated but a manual spreader would be used if needed. Minimum mowing height will be such that the grass is not scorched, approximately 3". The maximum growing height will be determined by the operator, 18" is anticipated maximum height prior to mowing. Bermuda grass will produce about 1 ton per acre with no applied fertilizer. Winter Rye produces 2 to 3 tons per acre. The irrigation system will be designed according to Standard Irrigation Best Management Practices as stated in 30 TAC 309.20b(5)(B).

Soil Testing

Soil analysis has been performed at the site, and a copy of the report has been included.

SW Oaks WWTF – Groundwater Quality Report

Background

The SW Oaks WWTF will serve a new development that generates 61,280 gpd at full buildout. The treated effluent will be disposed of via spray irrigation within an area of 14.07 acres at full buildout.

Aquifer

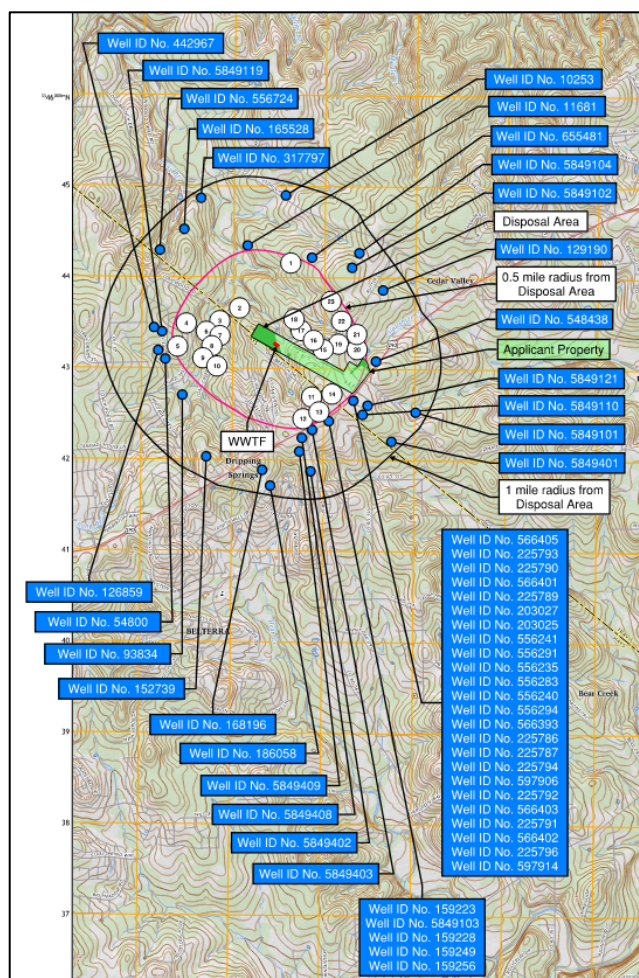
The nearby aquifer code is 218GLRS - Glen Rose Limestone.

Nearby Well Information

A USGS map showing all wells within 1 mile of the property boundaries has been included with the application. A well reference list with well attributes such as the well ID number, well depth, well status, and proposed management practice is provided with this application. There are no wells located within 500' of the disposal areas. The well logs for the wells on the reference list are included with this application. Below is a portion of the USGS map depicting the WWTF site, effluent disposal areas, 0.5-mile and 1-mile radius from the property boundaries, and well locations.

Impact on Local Groundwater Resources

The wastewater effluent is used to irrigate publicly accessible fields. The effluent applied to the land has a maximum application rate of 0.1 gal/sqft/day to ensure the effluent is taken up by the crop root systems and that potential contaminants do not migrate below the root zone. The treated effluent will be stored in a pond with a liner certified by a Texas Professional Engineer prior to being conveyed to the disposal areas.



SW Oaks WWTF – Site Preparation Plan

The items below have been prepared in accordance with 30 TAC Chapter 222.75.

Stormwater Run-on and Runoff Controls

Any necessary grading adjustments will be made to ensure that the subsurface area drip dispersal systems do not collect or retain stormwater runoff. For instance, berms or swales will be built to reduce run-on and enhance runoff from disposal areas. Subsurface area drip dispersal lines will be avoided in segments where rainfall channeling is evident.

Restrictive Horizons in Soil Column

For such areas with shallow soils, soil will be imported to ensure that the column is of the appropriate depth.

Soil Importation

In certain areas of the site, importing soil may be necessary. If so, sandy loam will be brought in to achieve the required soil depth for the selected vegetation to thrive and ensure optimal nutrient uptake.

Existing Vegetation

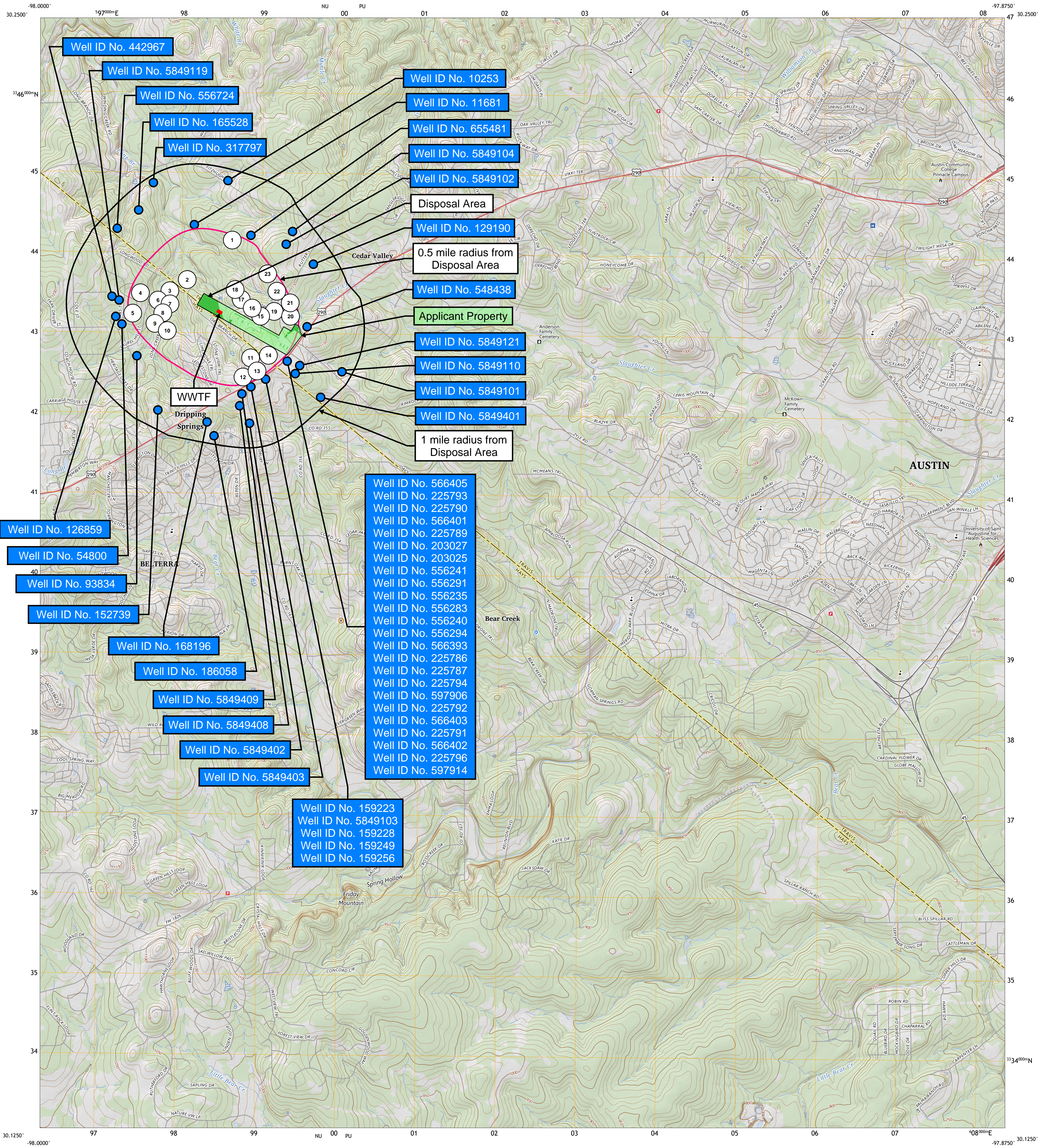
There are minimal trees in the disposal areas. In those areas that do contain trees, small trees will be removed from the site and the large trees will remain. The entire site will be overseeded with Bermuda grass and Winter Rye.



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

SW Oaks WWTF TLAP Map

SIGNAL HILL QUADRANGLE
TEXAS
7.5-MINUTE TOPO

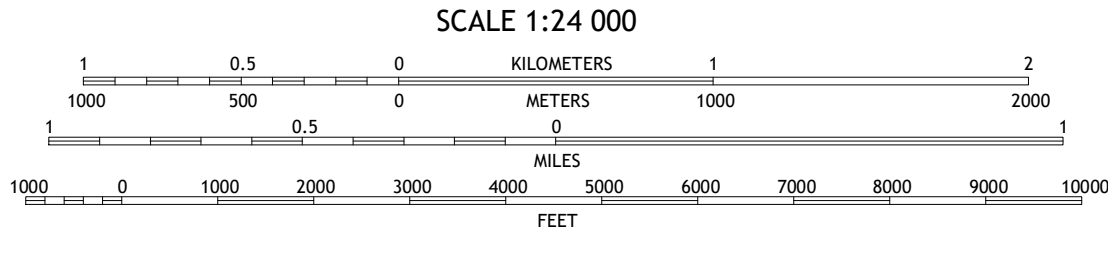
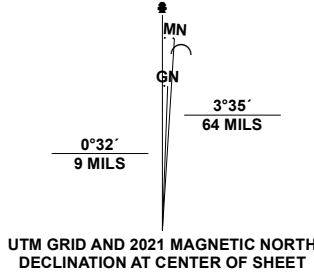


Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid/Universal Transverse Mercator, Zone 14R.
Data is provided by The National Map (TNM), is the best available at the time of map
generation, and includes data content from supporting themes of Elevation,
Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover,
and Orthoregistry. Refer to associated Federal Geographic Data Committee (FGDC)
Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale.
Private lands within government reservations may not be shown. Obtain permission
before entering private lands. Temporal changes may have occurred since these data
were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: <https://nationalmap.gov>



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT



| QUADRANGLE LOCATION | | |
|---------------------|---------------|-------------|
| Shingle Hills | Bee Cave | Austin West |
| Dripping Springs | Signal Hill | Oak Hill |
| Driftwood | Mountain City | Buda |

| ROAD CLASSIFICATION | |
|---------------------|-----------------|
| Expressway | Local Connector |
| Secondary Hwy | Local Road |
| Ramp | 4WD |
| Interstate Route | US Route |
| | State Route |

SIGNAL HILL, TX
2024



| SW Oaks WWTF - USGS Well ID Attachment | | | | | | |
|--|-----------|----------|---------------|----------------------------------|-----------------------------------|------------------------|
| Map Reference Number | Well ID # | Well Use | Producing Y/N | Open, cased, capped, or Plugged? | Proposed Best Management Practice | Well Log Included? Y/N |
| 1 | 75955 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 2 | 407580 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 3 | 277708 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 4 | 369065 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 5 | 91995 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 6 | 404319 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 7 | 567555 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 8 | 216008 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 9 | 655862 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 10 | 612782 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 11 | 5849120 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 12 | 183814 | Monitor | N | Plugged | Buffer requirement will be met | Y |
| | 501931 | Monitor | N | Plugged | Buffer requirement will be met | Y |
| 13 | 5849118 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 14 | 5849117 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 15 | 588849 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 16 | 86207 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 17 | 199651 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 18 | 29969 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| | 394577 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 19 | 54933 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 20 | 10252 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 21 | 7189 | Domestic | N | Plugged | Buffer requirement will be met | Y |
| | 75848 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 22 | 341367 | Domestic | Y | Cased | Buffer requirement will be met | Y |
| 23 | 63065 | Domestic | Y | Cased | Buffer requirement will be met | Y |

STATE OF TEXAS PLUGGING REPORT for Tracking #7189

| | | | |
|----------------|---|---------------|----------------|
| Owner: | MARK MULLER | Owner Well #: | 001 |
| Address: | 15317 OZONE PLACE AUSTIN, TX 78728 | Grid #: | 58-49-1 |
| Well Location: | LOT 1 OAK RUN ESTATES AUSTIN, TX 78737 | Latitude: | 30° 13' 04" N |
| | | Longitude: | 097° 58' 02" W |
| Well County: | Travis | Elevation: | No Data |

Well Type: **Withdrawal of Water**

Drilling Information

| | | | |
|----------|---------|-----------------|---------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | No Data |

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 6 | | 460 |

Plugging Information

Date Plugged: **6/20/2002** Plugger: **JIM BLAIR**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 6 | 0 | 20 |

Plug(s) Placed in Well:

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|-----------|--------------|--|
| 0 | 460 | 28 |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR** License Number: **54416**

Comments: **WE SET OUR TREMMIE PIPE (1.25" PVC) AS DEEP AS WE COULD GET IT AND GROUTED WITH BENTONITE SLURRY TO THE SURFACE. WE THEN REMOVED THE TOP TWO FEET OF BENTONITE AND POURED.**

STATE OF TEXAS PLUGGING REPORT for Tracking #152739

| | | | |
|----------------|---|---------------|------------------|
| Owner: | Mike Schoenfeld | Owner Well #: | No Data |
| Address: | 13115 Four Star Blvd. Austin, TX 78737 | Grid #: | 58-49-4 |
| Well Location: | 13115 Four Star Blvd. Austin, TX 78737 | Latitude: | 30° 12' 21" N |
| Well County: | Hays | Longitude: | 097° 59' 04.6" W |
| | | Elevation: | 1183 |
| Well Type: | Domestic | | |

Drilling Information

| | | | |
|-----------|---------|-----------------|---------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | No Data | License Number: | No Data |
| Borehole: | No Data | | |

Plugging Information

Date Plugged: 9/29/2015 Plugger: Jared Thompson

Plug Method: Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet

Casing Left in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 6 | 1 | 20 |

Plug(s) Placed in Well:

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|-----------|--------------|--|
| 0 | 7 | Cement 3 Bags/Sacks |
| 7 | 640 | Bentonite 76 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: Bee Cave Drilling, Inc.
185 Angel Fire Dr.
Dripping Springs, TX 78620

Driller Name: Jim Blair License Number: 54416

Comments: We were late filing this due to flooding

STATE OF TEXAS PLUGGING REPORT for Tracking #159223

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | ASTEX ENVIRONMENTAL | Owner Well #: | WELL #1 |
| Address: | 139 BRANIFF DRIVE SAN ANTONIO, TX 78216 | Grid #: | 58-49-1 |
| Well Location: | 12155 WEST HWY. 290 AUSTIN, TX 78737 | Latitude: | 30° 12' 34.26" N |
| Well County: | Travis | Longitude: | 097° 58' 14.22" W |
| | | Elevation: | No Data |

| | | | |
|------------|----------------------------|--------------------------|----------|
| Well Type: | Withdrawal of Water | Number of Wells Plugged: | 2 |
|------------|----------------------------|--------------------------|----------|

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | UNKNOWN | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | UNKNOWN |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 5 | 0 | 490 |

Plugging Information

Date Plugged: **5/16/2016** Plugger: **AARON GLASS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 5 | 0 | 490 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 490 | Bentonite 5 Bags/Sacks |
| 0 | 490 | Cement 80 Bags/Sacks |
| 115 | 140 | HOLE PLUG 35 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **THERE WAS A VOID THAT WOULDN'T FILL HAD TO INSERT 35 BAGS OF HOLE PLUG FROM 140' UP TO 115'.**

STATE OF TEXAS PLUGGING REPORT for Tracking #159228

| | | | |
|----------------|---|---------------|-------------------------|
| Owner: | ASTEX ENVIRONMENTAL | Owner Well #: | WELL #2 |
| Address: | 139 BRANIFF DRIVE AUSTIN, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 12115 WEST HWY. 290 AUSTIN, TX 78737 | Latitude: | 30° 12' 33.72" N |
| Well County: | Travis | Longitude: | 097° 58' 13.8" W |
| | | Elevation: | No Data |

| | | | |
|------------|----------------------------|--------------------------|----------|
| Well Type: | Withdrawal of Water | Number of Wells Plugged: | 2 |
|------------|----------------------------|--------------------------|----------|

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | UNKNOWN | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | UNKNOWN |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 5 | 0 | 510 |

Plugging Information

Date Plugged: **5/16/2016** Plugger: **AARON GLASS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 5 | 0 | 510 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 510 | Bentonite 5 Bags/Sacks |
| 0 | 510 | Cement 67 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #159249

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | ASTEX ENVIRONMENTAL | Owner Well #: | WELL #3 |
| Address: | 139 BRANIFF DRIVE SAN ANTONIO, TX 78216 | Grid #: | 58-49-1 |
| Well Location: | 12117 WEST HWY. 290 AUSTIN, TX 78737 | Latitude: | 30° 12' 32.94" N |
| Well County: | Hays | Longitude: | 097° 58' 16.14" W |
| | | Elevation: | No Data |

| | | | |
|------------|----------------------------|--------------------------|----------|
| Well Type: | Withdrawal of Water | Number of Wells Plugged: | 2 |
|------------|----------------------------|--------------------------|----------|

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | UNKNOWN | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | UNKNOWN |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 280 |

Plugging Information

Date Plugged: **5/16/2016** Plugger: **AARON GLASS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 6 | 0 | 21 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 280 | Bentonite 5 Bags/Sacks |
| 0 | 280 | Cement 59 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #159256

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | ASTEX ENVIRONMENTAL | Owner Well #: | WELL #4 |
| Address: | 139 BRANIFF DRIVE SAN ANTONIO, TX 78216 | Grid #: | 58-49-1 |
| Well Location: | 12117 WEST HWY. 290 AUSTIN, TX 78737 | Latitude: | 30° 12' 32.82" N |
| Well County: | Hays | Longitude: | 097° 58' 16.2" W |
| | | Elevation: | No Data |

| | | | |
|------------|----------------------------|--------------------------|----------|
| Well Type: | Withdrawal of Water | Number of Wells Plugged: | 2 |
|------------|----------------------------|--------------------------|----------|

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | UNKNOWN | Date Drilled: | No Data |
| Driller: | UNKNOWN | License Number: | UNKNOWN |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 148 |

Plugging Information

Date Plugged: **5/16/2016** Plugger: **AARON GLASS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 6 | 0 | 21 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 148 | Bentonite 2 Bags/Sacks |
| 0 | 148 | Cement 34 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #168196

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | RON GRIMM | Owner Well #: | 1 |
| Address: | PO BOX 290 AUSTIN, TX 78701 | Grid #: | 58-49-4 |
| Well Location: | E HWY 290 DRIPPINGS SPRINGS, TX 78620 | Latitude: | 30° 12' 16.18" N |
| | ON 290 EAST, BETWEEN BELTERRA DRIVE AND NUTTY BROWN ROAD. ON THE SOUTH SIDE OF 290, NEAR THE MAIN ENTRANCE TO BELTERRA. 200 YARDS BACK AND TO THE RIGHT | Longitude: | 097° 58' 41.52" W |
| | | Elevation: | No Data |
| Well County: | Hays | | |
| Well Type: | Withdrawal of Water | | |

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | No Data | License Number: | No Data |

| | | | |
|-----------|-----------------------|------------------------|---------------------------|
| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
| Borehole: | 8 | 0 | 158 |

Plugging Information

| | | | |
|---------------|---|----------|-------------------|
| Date Plugged: | 3/6/2017 | Plugger: | FRED SMITH |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

No Data

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 2 | 25 | Cement 2 Bags/Sacks |
| 25 | 158 | Bentonite 13 Bags/Sacks |

| | |
|---------------------|--|
| Certification Data: | The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal. |
|---------------------|--|

Company Information: **Hydro Resources Mid-Continent, Inc.**

**31866 RR 12
Dripping Springs, TX 78620**

Driller Name: **FRED SMITH**

License Number: **54437**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #183814

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | Proposed 7-Eleven # 38575 | Owner Well #: | TMW-1 |
| Address: | Oak Branch Drive & Hwy 290 Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | Oak Branch Drive & Hwy 290 Austin, TX 78737 | Latitude: | 30° 12' 32.06" N |
| Well County: | Hays | Longitude: | 097° 58' 24.36" W |
| | | Elevation: | 1191 |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|--|-----------------|------------------|
| Company: | Roddy Qualls Environmental Drilling | Date Drilled: | 1/10/2019 |
| Driller: | Jon M Storm | License Number: | 5003 |

Well Report Tracking #501931

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 42.5 |

Plugging Information

| | | | |
|---------------|---|----------|------------------|
| Date Plugged: | 1/10/2019 | Plugger: | Jon Storm |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Cement 1 Bags/Sacks |
| 2 | 42.5 | Bentonite 2 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Roddy Qualls Environmental Drilling**
314 thomas pl
everman, TX 76140

| | | | |
|---------------|------------------|-----------------|-------------|
| Driller Name: | Jon Storm | License Number: | 5003 |
|---------------|------------------|-----------------|-------------|

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #186058

| | | | |
|----------------|--|---------------|-----------------------|
| Owner: | Crescent Communities | Owner Well #: | No Data |
| Address: | 7000 N. Mopac Expressway Suite 360 Austin, TX 78731 | Grid #: | 58-49-4 |
| Well Location: | Trinity Hills Dr. Austin, TX 78731 | Latitude: | 30° 12' 10" N |
| Well County: | Hays | Longitude: | 097° 58' 39" W |
| | | Elevation: | No Data |
| Well Type: | Withdrawal of Water | | |

Drilling Information

| | | | |
|----------|----------------|-----------------|----------------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | No Data | License Number: | No Data |

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 315 |

Plugging Information

Date Plugged: **4/9/2019** Plugger: **Mike Scott**

Plug Method: **Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 4.5 | 2 | 20 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Cement 2 Bags/Sacks |
| 2 | 315 | Bentonite 27 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Bee Cave Drilling, Inc.**
185 Angel Fire Dr.
Dripping Springs, TX 78620

Driller Name: **Jim Blair** License Number: **54416**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #203025

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | B-5/TMW-1 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.51" N |
| Well County: | Travis | Longitude: | 097° 58' 04.92" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 10/6/2020 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #556291

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 15 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 10/6/2020 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 1 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.29 Bags/Sacks |
| 2 | 15 | Bentonite 0.46 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Tony Elmendorf | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #203027

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | B-6/TMW-2 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.51" N |
| Well County: | Travis | Longitude: | 097° 58' 04.92" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 10/6/2020 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #556294

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 15 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 10/6/2020 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 1 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.29 Bags/Sacks |
| 2 | 15 | Bentonite 0.46 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Tony Elmendorf | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225786

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-1 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.04" N |
| Well County: | Travis | Longitude: | 097° 58' 05.66" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566393

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21.5 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225787

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-2 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 39.93" N |
| Well County: | Travis | Longitude: | 097° 58' 04.69" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566398

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225789

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-3 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.69" N |
| Well County: | Travis | Longitude: | 097° 58' 05.6" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566400

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 5 | 20 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225790

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-4 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 41.08" N |
| Well County: | Travis | Longitude: | 097° 58' 05.15" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566401

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225791

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-5 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.04" N |
| Well County: | Travis | Longitude: | 097° 58' 03.8" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566402

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 5 | 20 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225792

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-6 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 40.82" N |
| Well County: | Travis | Longitude: | 097° 58' 03.46" W |
| | | Elevation: | No Data |

Well Type: **Monitor**

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566403

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

Date Plugged: **11/21/2022** Plugger: **James E Neal**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225793

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil Company, Inc. | Owner Well #: | MW-7 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 41.6" N |
| Well County: | Travis | Longitude: | 097° 58' 04.26" W |
| | | Elevation: | No Data |

Well Type: **Monitor**

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 1/28/2021 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #566405

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Plugging Information

Date Plugged: **11/21/2022** Plugger: **James E Neal**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225794

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | McCraw Oil, Inc. | Owner Well #: | MW-8 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 39.44" N |
| Well County: | Travis | Longitude: | 097° 58' 04.96" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|-------------------------------------|-----------------|------------------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 2/11/2022 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #597906

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 22 |

Plugging Information

| | | | |
|---------------|---|----------|---------------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|-----------------------|-----------------|-------------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #225796

| | | | |
|----------------|--|---------------|-------------------|
| Owner: | McCraw Oil, Inc. | Owner Well #: | MW-9 |
| Address: | 2207 North Center Street Bonham, TX 75418 | Grid #: | 58-49-1 |
| Well Location: | 12009 US-290 Austin, TX 78737 | Latitude: | 30° 12' 38.42" N |
| Well County: | Travis | Longitude: | 097° 58' 02.65" W |
| | | Elevation: | No Data |
| Well Type: | Monitor | | |

Drilling Information

| | | | |
|----------|------------------------------|-----------------|-----------|
| Company: | Vortex Drilling Partners, LP | Date Drilled: | 2/11/2022 |
| Driller: | James E Neal | License Number: | 4868 |

Well Report Tracking #597914

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 6 | 0 | 22 |

Plugging Information

| | | | |
|---------------|--|----------|--------------|
| Date Plugged: | 11/21/2022 | Plugger: | James E Neal |
| Plug Method: | Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet | | |

Casing Left in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 2 | 0 | 0 |

Plug(s) Placed in Well:

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|-----------|--------------|--|
| 0 | 2 | Concrete 0.07 Bags/Sacks |
| 2 | 20 | Bentonite 0.51 Bags/Sacks |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: Vortex Drilling Partners, LP
4412 Bluemel Road
San Antonio, TX 78240

| | | | |
|------------------|----------------|-----------------|------|
| Driller Name: | James E. Neal | License Number: | 4868 |
| Apprentice Name: | Gustavo Garcia | | |
| Comments: | No Data | | |

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-101**

[GWDB Reports and Downloads](#)

Well Basic Details

[Scanned Documents](#)

| | |
|---|--------------------------------|
| State Well Number | 5849101 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.210001 |
| Latitude (degrees minutes seconds) | 30° 12' 36" N |
| Longitude (decimal degrees) | -97.960834 |
| Longitude (degrees minutes seconds) | 097° 57' 39" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1100 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 500 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 0/0/1966 |
| Drilling Method | Cable Tool |
| Borehole Completion | Open Hole |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Piston |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Dick Sanders |
| Driller | Dick Sanders |
| Other Data Available | Drillers Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/27/1998 |
| Last Update Date | 3/4/2020 |

Remarks Reported yield 15 GPM with 35 feet drawdown. Specific capacity 0.4.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

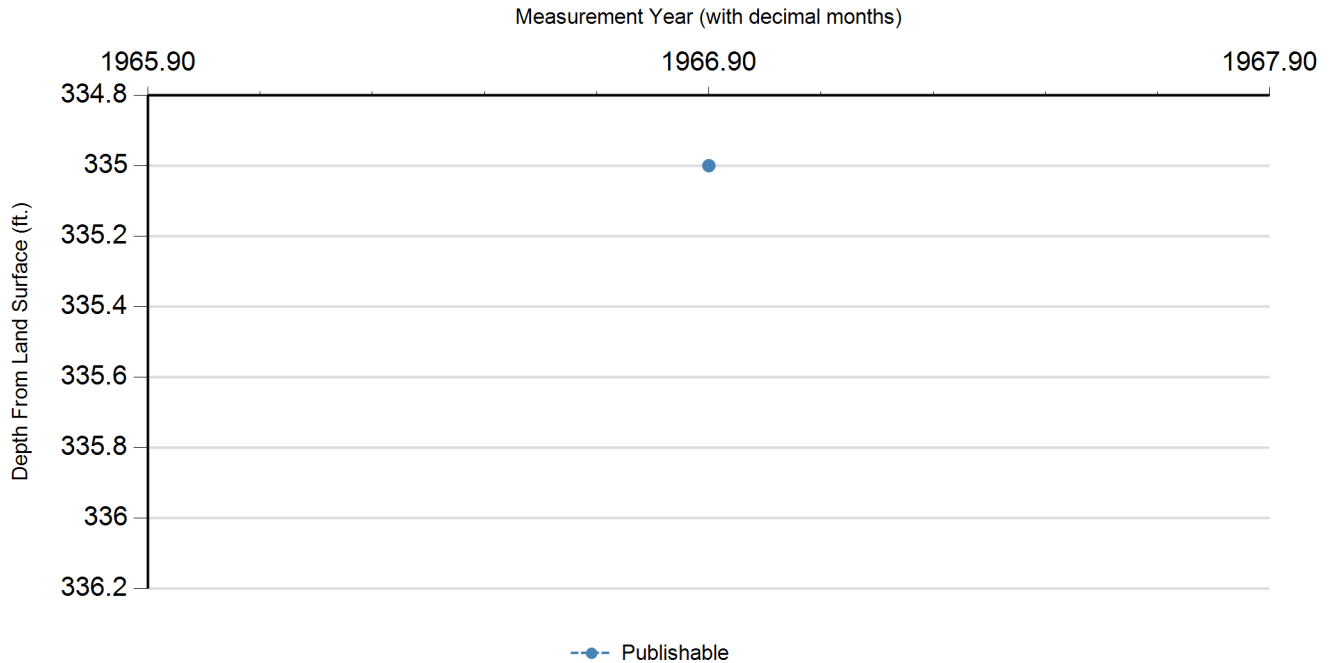
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|------------|------|--------------------------------------|---|---------------------------------------|--------|--|---------|-----------|----------|
| P | 11/30/1966 | | 335 | | 765 | 1 | Other or Source of Measurement Unknown | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 9/14/1999 **Sample Time:** 1045 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|-------|------------|
| 00400 | PH (STANDARD UNITS), FIELD | | 6.69 | SU | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2750 | MICR | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 24 | C | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

| | |
|---|--|
| State Well Number | 5849102 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.224444 |
| Latitude (degrees minutes seconds) | 30° 13' 28" N |
| Longitude (decimal degrees) | -97.968055 |
| Longitude (degrees minutes seconds) | 097° 58' 05" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | 218GLRSU - Glen Rose Limestone, Upper Member |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1170 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 400 |
| Well Depth Source | Unknown |
| Drilling Start Date | |
| Drilling End Date | 0/0/1963 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|---------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | R.G. Rutter |
| Driller | Davis Rutter |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | |
| Created Date | |
| Last Update Date | 3/4/2020 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 1/8/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone, Upper Member

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 365 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 445.43 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 133 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 16 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.9 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 578 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 60 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 3.5 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.4 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 10 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.33 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 18 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1264 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 206 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 21 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 668 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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[GWDB Reports and Downloads](#)
[Well Basic Details](#)
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| | |
|---|---|
| State Well Number | 5849103 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.209445 |
| Latitude (degrees minutes seconds) | 30° 12' 34" N |
| Longitude (decimal degrees) | -97.970555 |
| Longitude (degrees minutes seconds) | 097° 58' 14" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GRHC - Glen Rose LS and Hensell SH and Cow Creek LS Members of Pearsall FM |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1190 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 705 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 7/0/1968 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Amanda Hudson |
| Driller | Richard L. Bible Drilling Co. |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 8/2/1990 |
| Last Update Date | 4/20/1994 |

Remarks Open hole from 300 to 705 ft. Pump set at 683 ft.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-103**

Water Quality Analysis

Sample Date: 1/8/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose LS and Hensell SH and Cow Creek LS
Members of Pearsall FM

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 303 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 369.76 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 174 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 19 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.4 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 709 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 67 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 1 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.3 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 0 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 12 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.2 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 3 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 12 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1566 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 371 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 840 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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[Well Basic Details](#)
[Scanned Documents](#)

| | |
|---|--------------------------------|
| State Well Number | 5849104 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.2258333 |
| Latitude (degrees minutes seconds) | 30° 13' 33" N |
| Longitude (decimal degrees) | -97.9672222 |
| Longitude (degrees minutes seconds) | 097° 58' 02" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1140 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 262 |
| Well Depth Source | Unknown |
| Drilling Start Date | |
| Drilling End Date | |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|---|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | Piston |
| Pump Depth (feet below land surface) | |
| Power Type | Windmill |
| Annular Seal Method | |
| Surface Completion | |
| Owner | R.G. Rutter |
| Driller | Charles Hayden |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | Well J-33 in 1957 Travis County report. |
| Previous State Well Number | |
| Reporting Agency | |
| Created Date | |
| Last Update Date | 5/9/2020 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-110**

[GWDB Reports and Downloads](#)

Well Basic Details

[Scanned Documents](#)

| | |
|---|--------------------------------|
| State Well Number | 5849110 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.210001 |
| Latitude (degrees minutes seconds) | 30° 12' 36" N |
| Longitude (decimal degrees) | -97.966944 |
| Longitude (degrees minutes seconds) | 097° 58' 01" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1165 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 460 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 0/0/1968 |
| Drilling Method | Cable Tool |
| Borehole Completion | Open Hole |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Emmett Smith |
| Driller | Dick Sanders |
| Other Data Available | Drillers Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/27/1998 |
| Last Update Date | 3/4/2020 |

Remarks

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-117**

[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

| | |
|---|--------------------------------|
| State Well Number | 5849117 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.211667 |
| Latitude (degrees minutes seconds) | 30° 12' 42" N |
| Longitude (decimal degrees) | -97.970278 |
| Longitude (degrees minutes seconds) | 097° 58' 13" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1190 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 540 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 0/0/1972 |
| Drilling Method | Cable Tool |
| Borehole Completion | Open Hole |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Stock |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Raymond Klingeman |
| Driller | Richard Bible |
| Other Data Available | Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/27/1998 |
| Last Update Date | 3/4/2020 |

Remarks Reported yield 2 GPM with 60 feet drawdown after pumping 1/2 hour in 1972. Specific capacity 0.03.

Casing - No Data

Well Tests - No Data

Lithology - No Data

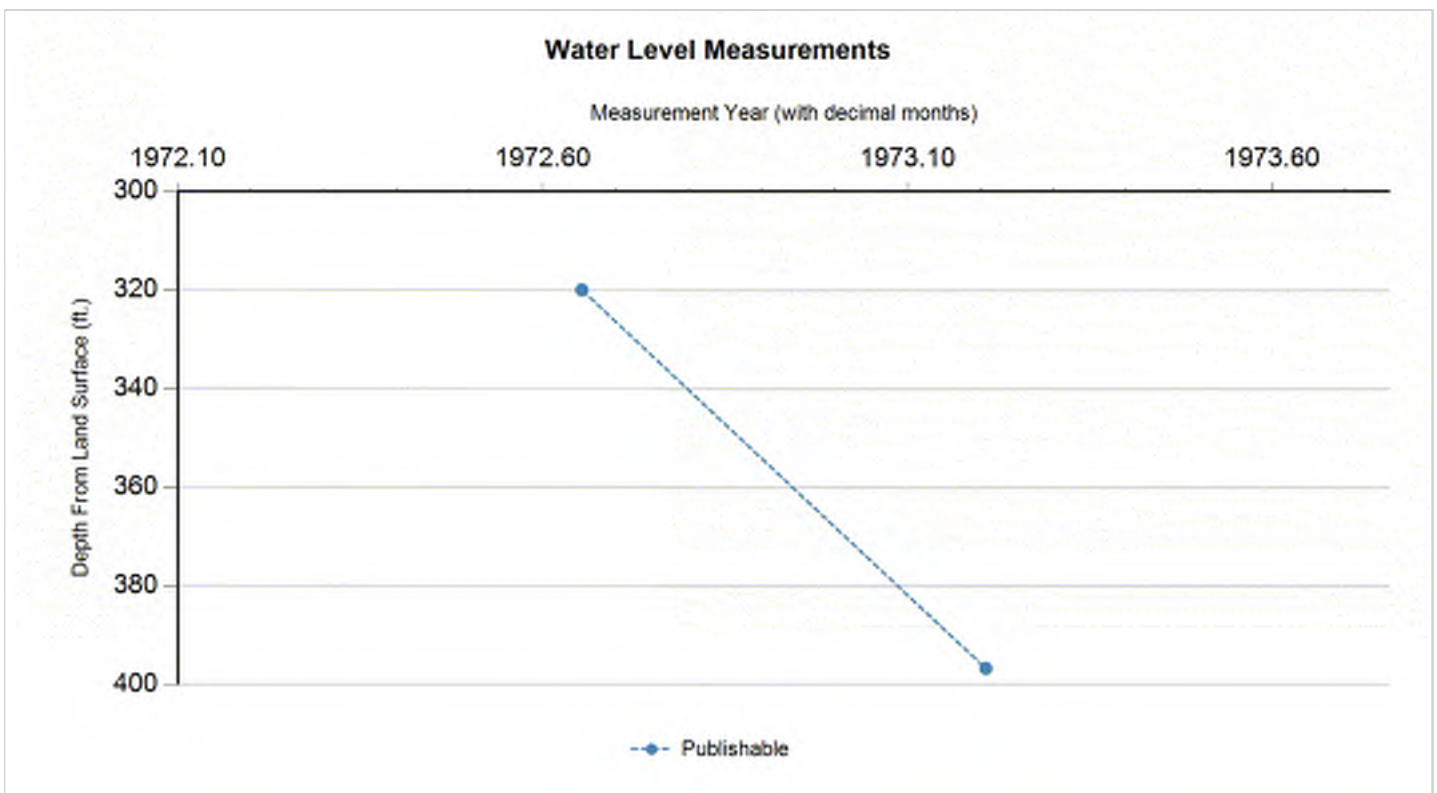
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|--|---------|-----------|----------|
| P | 7/0/1972 | | 320 | | 870 | 1 | Other or Source of Measurement Unknown | Unknown | | |
| P | 3/16/1973 | | 396.7 | 76.70 | 793.3 | 1 | Other or Source of Measurement Unknown | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 2/27/1973 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 290.08 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 354 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 477 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 27 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.5 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 1835 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 157 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | < | 0.4 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.4 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 11 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.19 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 2 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 19 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 4402 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 1500 | mg/L as SO4 | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 2367 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|-------------------------------|
| State Well Number | 5849118 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.209723 |
| Latitude (degrees minutes seconds) | 30° 12' 35" N |
| Longitude (decimal degrees) | -97.971944 |
| Longitude (degrees minutes seconds) | 097° 58' 19" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1200 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 623 |
| Well Depth Source | Person Other than Owner |
| Drilling Start Date | |
| Drilling End Date | 0/0/1931 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|--|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Mrs. F.J. Turck |
| Driller | S.W. Glass |
| Other Data Available | Caliper; Electric Log; Gamma Ray; Gamma-Gamma; Neutron |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 8/2/1990 |
| Last Update Date | 7/10/2008 |

Remarks Well B-63 in Texas Board of Water Engineers Bulletin 6004. Deepened from 235 to 623 ft in Nov.1950.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 8/26/1952 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: U.S. Geological Survey Lab

Reliability: From a report; unknown sample collection & preservation

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 344.98 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 420.99 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 178 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 30 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.6 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 900 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 111 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 0.2 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.4 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 12 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.42 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | calculated | 29 | mg/L | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 547 | mg/L as SO ₄ | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1116 | mg/L | |

Water Quality Analysis

Sample Date: 9/17/1975 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: after pressure tank

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|-------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 249 | mg/L as CaCO 3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 303.87 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 217 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 35 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.7 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 1236 | mg/L as CaCO 3 | |
| 00920 | MAGNESIUM (MG/L) | | 169 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | < | 0.4 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 8 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 12 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.46 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 37 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 3068 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 960 | mg/L as SO4 | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1582 | mg/L | |

Water Quality Analysis

Sample Date: 6/28/1977 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 314 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 383.19 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 204 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 31 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.4 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 1060 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 134 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 2 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.6 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 13 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 13 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.44 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 33 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2560 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 790 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1410 | mg/L | |

Water Quality Analysis

Sample Date: 5/9/1986 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 314 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 383.19 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 296 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 35 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.2 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 1314 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 140 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 0.09 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.7 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 15 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 12 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.48 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 6 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 40 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 3276 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 1039 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1768 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|-------------------------------|
| State Well Number | 5849119 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.218055 |
| Latitude (degrees minutes seconds) | 30° 13' 05" N |
| Longitude (decimal degrees) | -97.989722 |
| Longitude (degrees minutes seconds) | 097° 59' 23" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1116 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 530 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 1/0/1983 |
| Drilling Method | Air Rotary |
| Borehole Completion | Open Hole |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | Historical |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Larry Ingram |
| Driller | |
| Other Data Available | Drillers Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 2/22/1991 |
| Last Update Date | 4/20/1994 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

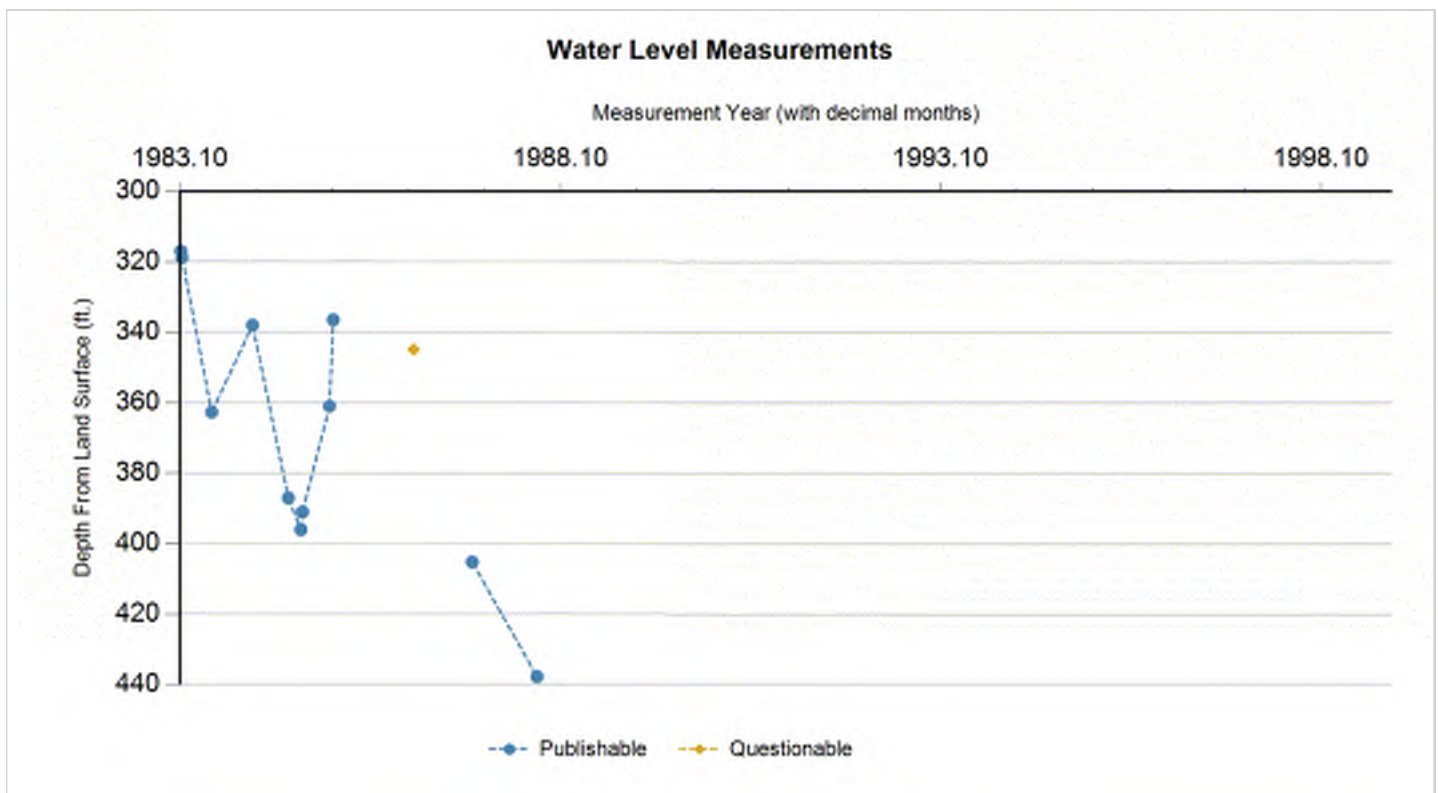
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|------------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------------|-----------|----------|
| P | 2/13/1983 | | 317 | | 799 | 1 | Texas Water Development Board | Electric Line | | |
| P | 2/18/1983 | | 318.79 | 1.79 | 797.21 | 1 | Texas Water Development Board | Steel Tape | | |
| P | 7/11/1983 | | 362.7 | 43.91 | 753.3 | 1 | Texas Water Development Board | Electric Line | | |
| P | 1/22/1984 | | 338 | (24.70) | 778 | 1 | Texas Water Development Board | Electric Line | | |
| P | 7/14/1984 | | 387 | 49.00 | 729 | 1 | Texas Water Development Board | Electric Line | | |
| P | 9/14/1984 | | 396 | 9.00 | 720 | 1 | Texas Water Development Board | Electric Line | | |
| P | 9/22/1984 | | 391 | (5.00) | 725 | 1 | Texas Water Development Board | Electric Line | | |
| P | 1/26/1985 | | 361 | (30.00) | 755 | 1 | Texas Water Development Board | Electric Line | | |
| P | 2/14/1985 | | 336.5 | (24.50) | 779.5 | 1 | Texas Water Development Board | Electric Line | | |
| Q | 3/5/1986 | | 344.89 | 8.39 | 771.11 | 1 | Texas Water Development Board | Electric Line | 10 | |
| P | 12/16/1986 | | 405.2 | 60.31 | 710.8 | 1 | Texas Water Development Board | Electric Line | | |
| P | 10/22/1987 | | 437.7 | 32.50 | 678.3 | 1 | Texas Water Development Board | Electric Line | | |
| X | 2/9/1989 | | | | | 1 | Texas Water Development Board | | 30 | |
| X | 1/8/1999 | | | | | 1 | Texas Water Development Board | | 19 | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |
| Q | Questionable |
| X | No Measurement |

| Remark ID | Remark Description |
|-----------|--|
| 10 | Inconsistent or spotty tape mark due to wet or leaking casing |
| 19 | Well pumping |
| 30 | Well temporarily inaccessible due to impassable roads, locked gate, etc. |

Water Quality Analysis

Sample Date: 2/18/1983 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: on 20 min. - at pressure tank

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 311 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 379.53 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 104 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 32 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.6 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 638 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 92 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | < | 0.04 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.7 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 10 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 12 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.46 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 8 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 27 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1580 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 338 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 805 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-120**

[GWDB Reports and Downloads](#)

Well Basic Details

[Scanned Documents](#)

| | |
|---|-------------------------------|
| State Well Number | 5849120 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.211389 |
| Latitude (degrees minutes seconds) | 30° 12' 41" N |
| Longitude (decimal degrees) | -97.9725 |
| Longitude (degrees minutes seconds) | 097° 58' 21" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218CCRK - Cow Creek Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1185 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 735 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 6/22/1983 |
| Drilling Method | Air Rotary |
| Borehole Completion | Open Hole |

| | |
|---|---|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Jack Overton |
| Driller | Bryon Benoit |
| Other Data Available | Drillers Log; Electric Log; Gamma Ray; Gamma-Gamma; Neutron |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 6/24/2008 |
| Last Update Date | 6/24/2008 |

Remarks

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 6/22/1983 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Cow Creek Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 313 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 381.97 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 531 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 35 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.9 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 2098 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 188 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | < | 0.04 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.7 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 17 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 12 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.28 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 3 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 30 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 5376 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 1803 | mg/L as SO4 | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 2807 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-121**

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Well Basic Details

[Scanned Documents](#)

| | |
|---|--------------------------------|
| State Well Number | 5849121 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.210834 |
| Latitude (degrees minutes seconds) | 30° 12' 39" N |
| Longitude (decimal degrees) | -97.966389 |
| Longitude (degrees minutes seconds) | 097° 57' 59" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 217HSTN - Hosston Formation |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1168 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 1020 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 6/3/1985 |
| Drilling Method | Air Rotary |
| Borehole Completion | Open Hole |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Bill Howell Signal Hill |
| Driller | Frank Glass |
| Other Data Available | Drillers Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/5/1987 |
| Last Update Date | 3/4/2020 |

Remarks Estimated yield 35 GPM in 1985. Cemented from 0 to 800 feet.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 7 | Blank | Steel | | | 0 | 800 |
| 6 | Open Hole | | | | 800 | 1020 |

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

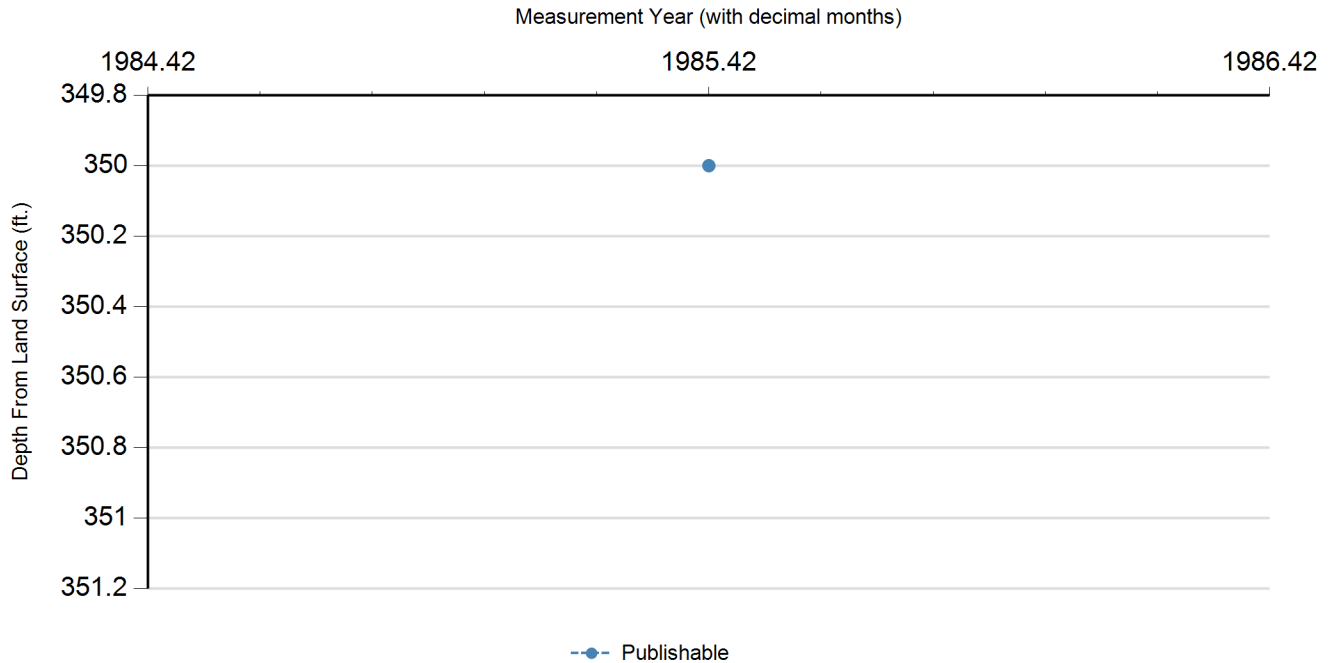
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 6/3/1985 | | 350 | | 818 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-401**

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| | |
|---|--------------------------------|
| State Well Number | 5849401 |
| County | Travis |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Southwestern Travis County GCD |
| Latitude (decimal degrees) | 30.207223 |
| Latitude (degrees minutes seconds) | 30° 12' 26" N |
| Longitude (decimal degrees) | -97.963612 |
| Longitude (degrees minutes seconds) | 097° 57' 49" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1115 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 568 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 0/0/1967 |
| Drilling Method | Cable Tool |
| Borehole Completion | Open Hole |

| | |
|---|---------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Unused |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Ernest Kuhnel |
| Driller | Dick Sanders |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 9/14/1999 |
| Last Update Date | 3/4/2020 |

Remarks Reported yield 15 GPM with 30 feet drawdown after pumping 2 hours in 1967. Specific capacity 0.5.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 11/20/1968 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|-------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 351 | mg/L as CaCO 3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 428.34 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 222 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 30 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.7 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 928 | mg/L as CaCO 3 | |
| 01045 | IRON, TOTAL (UG/L AS FE) | | 300 | ug/L | |
| 00920 | MAGNESIUM (MG/L) | | 91 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 2 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.2 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 13 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.26 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 4 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 18 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2160 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 570 | mg/L as SO4 | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1160 | mg/L | |

Water Quality Analysis

Sample Date: 10/29/1970 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 341 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 416.14 | mg/L | |
| 01020 | BORON, DISSOLVED (UG/L AS B) | | 700 | ug/L | |
| 00910 | CALCIUM (MG/L) | | 227 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 27 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 3.8 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 957 | mg/L as CaCO3 | |
| 01045 | IRON, TOTAL (UG/L AS FE) | | 8400 | ug/L | |
| 00920 | MAGNESIUM (MG/L) | | 95 | mg/L | |
| 01055 | MANGANESE, TOTAL (UG/L AS MN) | < | 50 | ug/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | < | 0.4 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.2 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 8 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 9 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.24 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 3 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 17 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2184 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 570 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 22 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1161 | mg/L | |

Water Quality Analysis

Sample Date: 9/14/1999 **Sample Time:** 1045 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 39086 | ALKALINITY FIELD DISSOLVED AS CaCO ₃ | | 291 | mg/L as CaCO ₃ | |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 281 | mg/L as CaCO ₃ | |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | < | 4 | ug/L | |
| 01095 | ANTIMONY, DISSOLVED (UG/L AS SB) | < | 1 | ug/L | |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | < | 2 | ug/L | |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | | 9.38 | ug/L | |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | < | 1 | ug/L | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 342.92 | mg/L | |
| 01020 | BORON, DISSOLVED (UG/L AS B) | | 410 | ug/L | |
| 71870 | BROMIDE, DISSOLVED, (MG/L AS BR) | | 0.4 | mg/L | |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | < | 1 | ug/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | | 499 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 35.2 | mg/L | |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | < | 1 | ug/L | |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | | 1.52 | ug/L | |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | < | 2 | ug/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 1698 | mg/L as CaCO ₃ | |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | | 119 | ug/L | |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | < | 1 | ug/L | |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | | 41.5 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 106 | mg/L | |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | | 10.6 | ug/L | |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | | 1.23 | ug/L | |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | | 54.2 | ug/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 0.51 | mg/L as NO ₃ | |
| 00631 | NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N) | | 0.114 | mg/L as N | |

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-401**

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|--------------------|------------|
| 00400 | PH (STANDARD UNITS), FIELD | | 6.69 | SU | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 9.38 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | < | 4 | ug/L | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 12 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.25 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 2 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | | 23.1 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2750 | MICR | |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | | 15400 | ug/L | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 1510 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 23.9 | C | |
| 01057 | THALLIUM, DISSOLVED (UG/L AS TL) | < | 1 | ug/L | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 2381 | mg/L | |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | < | 1 | ug/L | |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | | 26.3 | ug/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|-------------------------------|
| State Well Number | 5849402 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.204167 |
| Latitude (degrees minutes seconds) | 30° 12' 15" N |
| Longitude (decimal degrees) | -97.972778 |
| Longitude (degrees minutes seconds) | 097° 58' 22" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRS - Glen Rose Limestone |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1180 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 495 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 4/18/1962 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|---------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | C.A. Sears |
| Driller | Roy A. Farrer Drilling Co. |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/19/1998 |
| Last Update Date | 10/19/1998 |

Remarks Open hole from 17 to 495 ft. Reported yield 15 GPM with 25 feet drawdown. Specific capacity 0.6.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

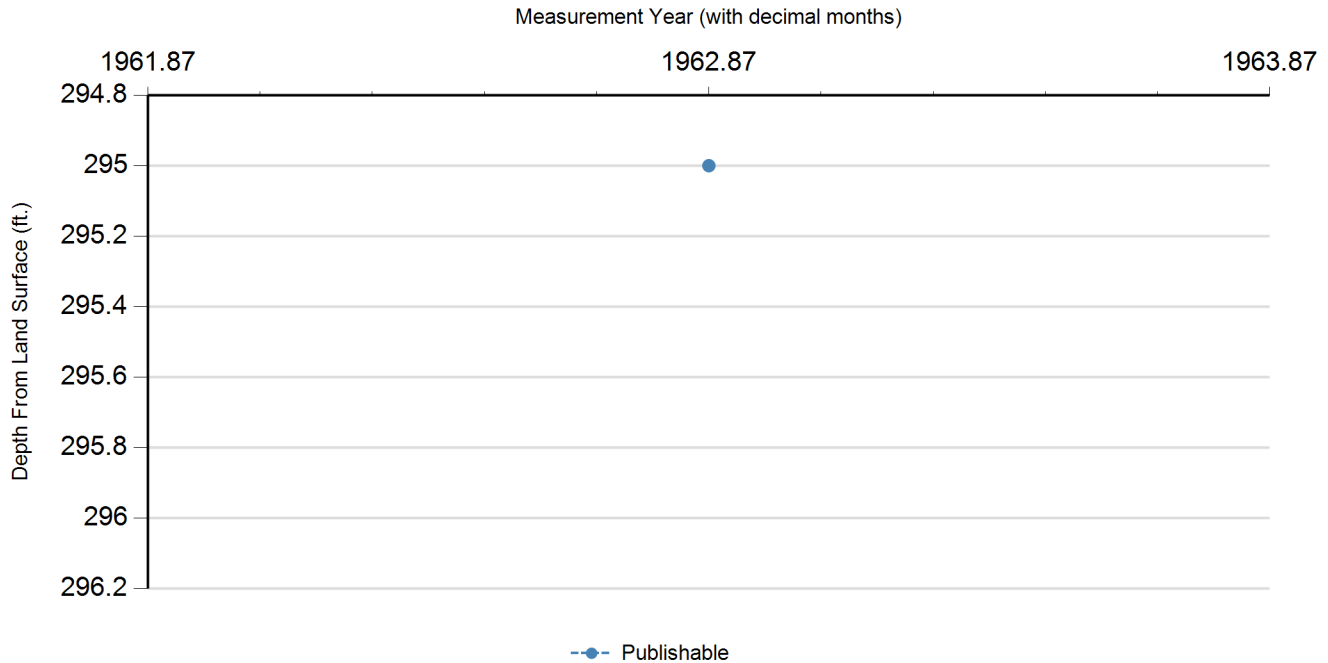
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|------------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|------------|-----------|----------|
| P | 11/18/1962 | | 295 | | 885 | 1 | Texas Water Development Board | Steel Tape | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 1/8/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: yard faucet - on 20 min.

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 367 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 447.87 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 123 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 17 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 2.9 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 594 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 70 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 2 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.3 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 0 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 12 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.23 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 4 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 13 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1287 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 205 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 19 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 665 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|--|
| State Well Number | 5849403 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.208334 |
| Latitude (degrees minutes seconds) | 30° 12' 30" N |
| Longitude (decimal degrees) | -97.9725 |
| Longitude (degrees minutes seconds) | 097° 58' 21" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 218GLRSU - Glen Rose Limestone, Upper Member |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1190 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 400 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 0/0/1947 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Centrifugal Pump |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | C.A. Sears |
| Driller | Glass and Tucker, Inc |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 8/6/1990 |
| Last Update Date | 4/20/1994 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 1/8/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone, Upper Member

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 297 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 362.44 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 85 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 15 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 0.4 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 323 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 27 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 7.2 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.4 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 0 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 10 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.17 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 4 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 7 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 652 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 12 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 19 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 341 | mg/L | |

Water Quality Analysis

Sample Date: 6/24/1977 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone, Upper Member

Analyzed Lab: Texas Department of Health

Reliability: From well not sufficiently pumped; not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 338 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 412.48 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 92 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 25 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 0.2 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 361 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 32 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 5.1 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.7 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 11 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 0.34 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 8 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 15 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 774 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 19 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 23 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 402 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|--|
| State Well Number | 5849408 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.207778 |
| Latitude (degrees minutes seconds) | 30° 12' 28" N |
| Longitude (decimal degrees) | -97.973889 |
| Longitude (degrees minutes seconds) | 097° 58' 26" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 219SLGH - Sligo and Hosston Formations |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1193 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 950 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 10/28/1986 |
| Drilling Method | Air Rotary |
| Borehole Completion | Perforated or Slotted |

| | |
|---|---------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | TxDOT |
| Driller | Associated Drilling |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/19/1998 |
| Last Update Date | 4/1/2010 |

Remarks Owner's #1 well. Measured yield 102 GPM with 73 feet drawdown after pumping 36 hours in 1986. Cemented from 0 to 500 feet. Spec. cap. 1.4.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 11 | Blank | Steel | | | 0 | 50 |
| 9 | Blank | Steel | | | 0 | 950 |
| 10 | Open Hole | | | | 750 | 950 |

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

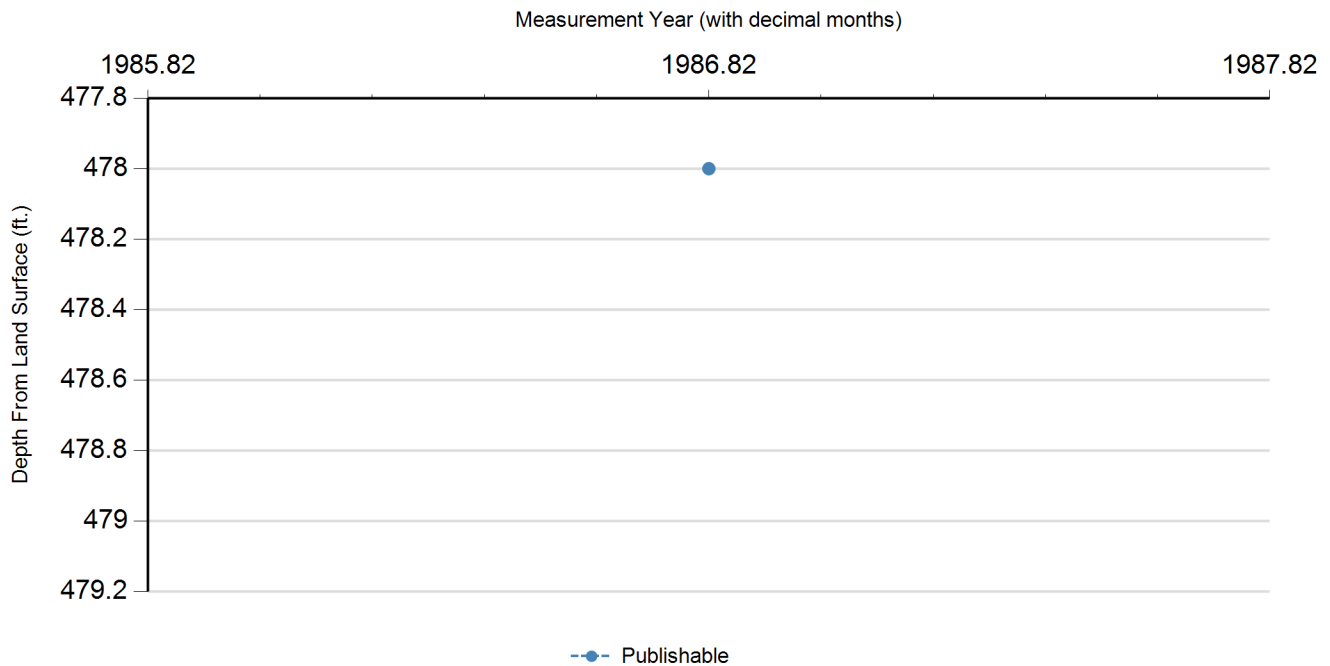
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 11/1/1986 | | 478 | | 715 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 11/6/1986 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Registered Water Well Driller

Sampled Aquifer: Sligo and Hosston Formations

Analyzed Lab: Misc. Industrial Lab

Reliability:

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 225 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 274.58 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 145 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 40 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 1.4 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 773 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 100 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | < | 0.1 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 6.9 | SU | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.25 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 18 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 80 | mg/L | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 650 | mg/L as SO ₄ | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1151 | mg/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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| | |
|---|-----------------------------|
| State Well Number | 5849409 |
| County | Hays |
| River Basin | Colorado |
| Groundwater Management Area | 9 |
| Regional Water Planning Area | K - Lower Colorado |
| Groundwater Conservation District | Hays Trinity GCD |
| Latitude (decimal degrees) | 30.206389 |
| Latitude (degrees minutes seconds) | 30° 12' 23" N |
| Longitude (decimal degrees) | -97.974167 |
| Longitude (degrees minutes seconds) | 097° 58' 27" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 217HSTN - Hosston Formation |
| Aquifer | Trinity |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 1175 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 960 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 9/1/1989 |
| Drilling Method | Air Rotary |
| Borehole Completion | Open Hole |

| | |
|---|---|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | TxDOT |
| Driller | I.T.Corp. Lee Gebbert |
| Other Data Available | Drillers Log; Electric Log; Geologists or Sample; Power-Yield Test; Specific Capacity |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 10/19/1998 |
| Last Update Date | 10/19/1998 |

| | |
|----------------|--|
| Remarks | Measured yield 21 GPM with 22 feet drawdown in 1989. Cemented from 0 to 807 feet. Specific capacity 0.9. |
|----------------|--|

| Casing | | | | | | |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
| 8 | Blank | Steel | | | 0 | 806 |
| 12 | Open Hole | | | | 806 | 850 |
| 8 | Open Hole | | | | 850 | 960 |

Well Tests - No Data

Lithology - No Data

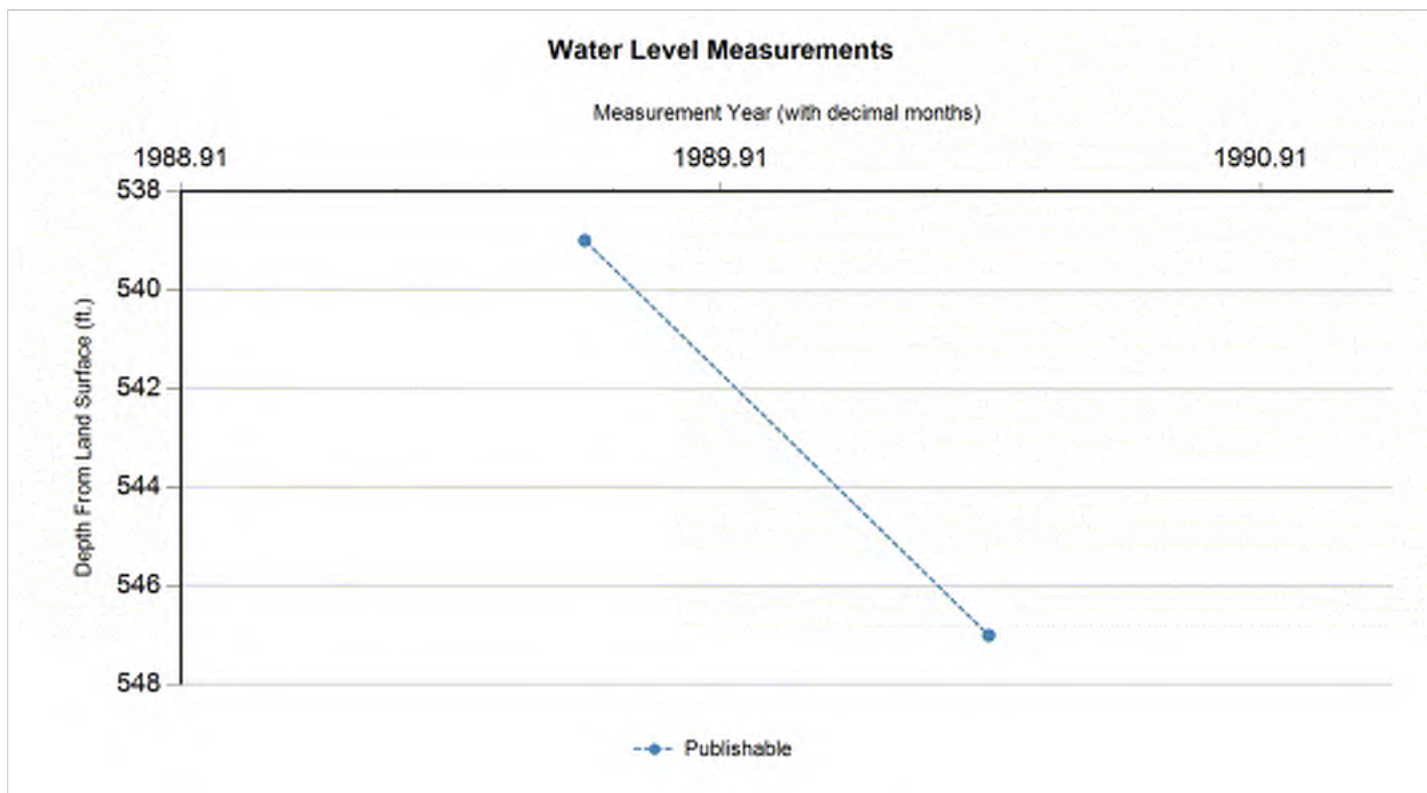
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------------|-----------|----------|
| P | 9/1/1989 | | 539 | | 636 | 1 | Registered Water Well Driller | Unknown | | |
| P | 5/29/1990 | | 547 | 8.00 | 628 | 1 | Texas Water Development Board | Electric Line | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 9/7/1989 **Sample Time:** 0930 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hosston Formation

Analyzed Lab: Texas Department of Health

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 39086 | ALKALINITY FIELD DISSOLVED AS CaCO ₃ | | 254 | mg/L as CaCO ₃ | |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 280 | mg/L as CaCO ₃ | |
| 01503 | ALPHA, DISSOLVED (PC/L) | | 3.2 | PC/L | 2.1 |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | < | 20 | ug/L | |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | < | 10 | ug/L | |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | < | 20 | ug/L | |
| 03503 | BETA, DISSOLVED (PC/L) | | 17 | PC/L | 6 |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 341.7 | mg/L | |
| 01020 | BORON, DISSOLVED (UG/L AS B) | | 650 | ug/L | |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | < | 10 | ug/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | | 168 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 39 | mg/L | |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | < | 20 | ug/L | |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | < | 20 | ug/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 0.5 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 942 | mg/L as CaCO ₃ | |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | | 256 | ug/L | |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | < | 50 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 121 | mg/L | |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | < | 20 | ug/L | |
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | < | 0.2 | ug/L | |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | | 0.02 | mg/L as N | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | | 0.08 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.01 | SU | |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | < | 0.01 | mg/L as P | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 20 | mg/L | |

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-409**

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|--------------------|------------|
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | < | 2 | ug/L | |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | | 21 | mg/L as SIO2 | |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | < | 10 | ug/L | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.08 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 15 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | | 75 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1810 | MICR | |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | | 22200 | ug/L | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 734 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 26 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1369 | mg/L | |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | | 1030 | ug/L | |

Water Quality Analysis

Sample Date: 6/30/1994 **Sample Time:** 1500 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hosston Formation

Analyzed Lab: Texas Department of Health

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 39086 | ALKALINITY FIELD DISSOLVED AS CaCO3 | | 280 | mg/L as CaCO3 | |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 274 | mg/L as CaCO3 | |
| 01503 | ALPHA, DISSOLVED (PC/L) | | 4.8 | PC/L | 3 |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | < | 20 | ug/L | |
| 01095 | ANTIMONY, DISSOLVED (UG/L AS SB) | | 2.7 | ug/L | |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | < | 1 | ug/L | |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | | 18.2 | ug/L | |
| 01010 | BERYLLIUM, DISSOLVED (UG/L AS BE) | < | 2 | ug/L | |
| 03503 | BETA, DISSOLVED (PC/L) | | 10 | PC/L | 4 |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 334.37 | mg/L | |
| 71870 | BROMIDE, DISSOLVED, (MG/L AS BR) | | 0.11 | mg/L | |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | < | 0.5 | ug/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | | 120 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 31 | mg/L | |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | < | 10 | ug/L | |
| 01035 | COBALT, DISSOLVED (UG/L AS CO) | < | 10 | ug/L | |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | < | 14.9 | ug/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 0.53 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 667 | mg/L as CaCO3 | |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | | 673 | ug/L | |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | < | 5 | ug/L | |
| 01130 | LITHIUM, DISSOLVED (UG/L AS LI) | | 99 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 85 | mg/L | |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | | 13.7 | ug/L | |
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | < | 0.13 | ug/L | |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | < | 20 | ug/L | |
| 01065 | NICKEL, DISSOLVED (UG/L AS NI) | | 13.6 | ug/L | |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | < | 0.01 | mg/L as N | |

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-49-409**

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|--------------|------------|
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | < | 0.04 | mg/L as NO3 | |
| 00613 | NITRITE NITROGEN, DISSOLVED (MG/L AS N) | < | 0.01 | mg/L as N | |
| 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | | 0.77 | mg/L as N | |
| 00623 | NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N) | | 1.1 | mg/L as N | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.14 | SU | |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | | 0.01 | mg/L as P | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 17 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | < | 4 | ug/L | |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | | 22 | mg/L as SIO2 | |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | < | 10 | ug/L | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.16 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 18 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | | 68 | mg/L | |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | | 16400 | ug/L | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 535 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 25.6 | C | |
| 01057 | THALLIUM, DISSOLVED (UG/L AS TL) | < | 2 | ug/L | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1059 | mg/L | |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | < | 10 | ug/L | |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | | 616 | ug/L | |

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<https://www.twdb.texas.gov/groundwater/data/gwdb rpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

STATE OF TEXAS WELL REPORT for Tracking #10252

Owner: **MARK MULLER**

Owner Well #: **001**

Address: **15317 OZONE PLACE
AUSTIN, TX 78728**

Grid #: **58-49-1**

Well Location: **LOT 1 OAK RUN ESTATES
AUSTIN, TX 78737**

Latitude: **30° 13' 00" N**

Longitude: **097° 58' 02" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/15/2002**

Drilling End Date: **7/15/2002**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 100 |
| | 6.5 | 100 | 886 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | 12 |

Seal Method: **PRESSURE CEMENTED**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **470 ft. below land surface on 2002-07-24** Measurement Method: **Unknown**

Packers: **PLASTIC 105
PLASTIC 700**

Type of Pump: **Submersible**

Pump Depth (ft.): **700**

Well Tests: **Jetted** **Yield: 20 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **SCOTT WILDER** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 2 | TOPSOIL |
| 2 | 15 | CALICHE |
| 15 | 360 | GREY LIMESTONE |
| 360 | 420 | GREY ROCK |
| 420 | 635 | GREY ROCK & TAN SANDSTONE |
| 635 | 663 | BLUE SHALE, CLAY & TAN & BROWN ROCK |
| 663 | 672 | BLUE CLAY |
| 672 | 690 | BLUE CLAY & SHALE |
| 690 | 736 | HARD TAN ROCK |
| 736 | 756 | TAN & BROWN SANDSTONE/FIRM |
| 756 | 806 | TAN & BROWN SANDSTONE/LOOSE |
| 806 | 886 | BROWN SANDY CLAY |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------|------------------------------|
| 4.5 | NEW | PLASTIC | 0 - 746 |
| 4.5 | NEW | SCREEN MFG. | 746 - 806 |
| 4.5 | NEW | PLASTIC | 806 - 886 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #10253

Owner: **WALL TO WALL CONSTRUCTION**

Owner Well #: **001**

Address: **635 WESTFRONT ST. SUITE 100
HUTTO, TX 78634**

Grid #: **58-49-1**

Well Location: **LOT 20 SOUTHWEST OAKS
DRIPPING SPRINGS, TX 78620**

Latitude: **30° 13' 54" N**

Longitude: **097° 58' 32" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/23/2002**

Drilling End Date: **7/23/2002**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 10 |
| | 6.5 | 10 | 848 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 16 | 10 |

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **410 ft. below land surface on 2002-07-24** Measurement Method: **Unknown**

Packers: **PLASTIC 16
PLASTIC 730**

Type of Pump: **Submersible**

Pump Depth (ft.): **760**

Well Tests: **Jetted** **Yield: 20-25 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **SCOTT WILDER** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-------------------------------|
| 0 | 2 | TOPSOIL |
| 2 | 20 | CALICHE |
| 20 | 560 | GREY LIMESTONE |
| 560 | 575 | GREY ROCK |
| 575 | 615 | GREY ROCK & TAN SANDSTONE W/B |
| 615 | 638 | BLUE SHALE & CLAY W/B |
| 638 | 647 | TAN SANDSTONE |
| 647 | 656 | BLUE CLAY & SHALE |
| 656 | 730 | SAND-TAN & BLUE |
| 730 | 836 | TAN & BROWN SANDSTONE & SAND |
| 836 | 848 | ROCK & CLAY |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-------------|-----------------------|
| 4.5 | NEW | PLASTIC | 0 - 776 |
| 4.5 | NEW | SCREEN MFG. | 776 - 836 |
| 4.5 | NEW | PLASTIC | 836 - 848 |

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #11681

Owner: **Michael & Bobbie Pollard**

Owner Well #: **No Data**

Address: **11008 South Bay Lane
Austin, TX 78739**

Grid #: **58-49-1**

Well Location: **12501 Fitzhugh Road
Austin, TX 78736**

Latitude: **30° 13' 36" N**

Longitude: **097° 58' 48" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/6/2002**

Drilling End Date: **8/7/2002**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 120 |
| | 6.75 | 120 | 800 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 120 | 35 |

Seal Method: **pressure cementing**

Distance to Property Line (ft.): **No Data**

Sealed By: **ADC**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **422 ft. below land surface on 2002-08-12** Measurement Method: **Unknown**

Packers: **Neoprene/ burlap**

Type of Pump: **Submersible**

Pump Depth (ft.): **660**

Well Tests: **Estimated** Yield: **75 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 660-800 | trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Company**

**P.O. Box 1060
Manchaca, TX 78652**

Driller Name: **Byron Benoit**

License Number: **1955**

Apprentice Name: **Byron Benoit**

Apprentice Number: **1955**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 1 | top soil |
| 1 | 30 | broken tan lime with caliche |
| 30 | 60 | gray lime |
| 60 | 120 | broken gray lime |
| 120 | 160 | Broken tan lime |
| 160 | 400 | gray lime |
| 400 | 480 | gray lime with shale |
| 480 | 620 | Broken tan and gray lime |
| 620 | 660 | shale |
| 660 | 700 | tan sandstone |
| 700 | 760 | broken dark red sandstone |
| 760 | 800 | broken tan with white sandstone |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|---------------------------------------|-----------------|-------------|------------------------------|
| 4.5 N Plastic -2 to 800 SDR 17 | | | |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #29969

| | | | |
|----------------|---|---------------|---------------------------------|
| Owner: | PARTNERS IN BUILDING | Owner Well #: | 005 |
| Address: | 1803 RR 620 N. LAKEWAY, TX 78734 | Grid #: | 58-49-1 |
| Well Location: | 11500 SOUTHWEST OAKS AUSTIN, TX | Latitude: | 30° 13' 10" N |
| Well County: | Travis | Longitude: | 097° 58' 29" W |
| | | Elevation: | 1075 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **11/3/2003** Drilling End Date: **11/3/2003**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 10 | 0 | 13 |
| | 7 | 13 | 840 |

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|-------------|
| Filter Pack Intervals: | 740 | 840 | Gravel | |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 10 | 12 CEMENT |
| | 725 | 740 | 2 HOLE PLUG |

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **GREG SVETLIK**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **480 ft. below land surface on 2003-11-05** Measurement Method: **Unknown**

Packers: **PLASTIC 10**

Type of Pump: **Submersible** Pump Depth (ft.): **700**

Well Tests: **Jetted** Yield: **30 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|------------------------------|
| 0 | 1 | TOPSOIL |
| 1 | 9 | CALICHE |
| 9 | 307 | GREY LIMESTONE |
| 307 | 314 | GREY SHALE |
| 314 | 322 | GREY LIMESTONE |
| 322 | 340 | BLUE LIMESTONE |
| 340 | 390 | GREY LIMESTONE |
| 390 | 470 | LIGHT GREY LIMESTONE |
| 470 | 487 | GREY LIMESTONE |
| 487 | 495 | TIGHT SAND |
| 495 | 560 | LIGHT GREY LIMESTONE |
| 560 | 566 | GREY ROCK |
| 566 | 585 | WHITE ROCK W/B 25 GPM |
| 585 | 625 | GREY ROCK |
| 625 | 632 | GREY SHALE |
| 632 | 657 | GREY ROCK |
| 657 | 662 | GREY SHALE |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------|------------------------------|
| 4.5 | NEW | PLASTIC | 0 - 770 |
| 4.5 | NEW | SCREEN MFG. | 770 - 830 .10 |
| 4.5 | NEW | PLASTIC | 830 - 840 |

| | | |
|-----|-----|-----------------------------|
| 662 | 690 | GREY ROCK |
| 690 | 745 | LIGHT GREY LIMESTONE |
| 745 | 762 | RED & GREY SANDSTONE |
| 762 | 766 | RED SHALE |
| 766 | 840 | RED SANDSTONE W/B 30 GPM |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #54800

Owner: **PEDRO TERROBA**

Owner Well #: **No Data**

Address: **41 TALL OAK TRAIL
AUSTIN, TX 78737**

Grid #: **58-49-1**

Well Location: **#6 TALL OAK TRAIL
AUSTIN, TX 78737**

Latitude: **30° 12' 56" N**

Longitude: **097° 59' 21" W**

Well County: **Hays**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/17/2005**

Drilling End Date: **2/17/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.625 | 0 | 50 |
| | 6.5 | 50 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 50 | 10 |

Seal Method: **Slurry**

Distance to Property Line (ft.): **N/A**

Sealed By: **C. T. D.**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **5 RUBBER & BURLAP 50',300',640'**

Type of Pump: **Submersible**

Well Tests: **Unknown** **Yield: 60-70 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 60 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **updated lat/long by TWDB on 2/14/08 - BA**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------|
| 0 | 1 | TOP SOIL |
| 1 | 12 | CALICHE |
| 12 | 13 | BLUE LIMESTONE |
| 13 | 35 | GRAY W/WHITE LIMESTONE |
| 35 | 330 | GRAY LIMESTONE |
| 330 | 390 | GRAY W/TAN LIMESTONE |
| 390 | 510 | GRAY LIMESTONE |
| 510 | 540 | TAN W/GRAY LIMESTONE |
| 540 | 550 | WHITE W/GRAY LIMESTONE |
| 550 | 560 | WHITE W/TAN/BROWN LIME |
| 560 | 590 | GRAY/TAN LIMESTONE |
| 590 | 645 | HAMMID CLAY LIMESTONE |
| 645 | 660 | HAMMID CLAY W/RED |
| 660 | 680 | GRAY/TAN LIMESTONE |
| 680 | 705 | GRAY LIMESTONE |
| 705 | 715 | GRAY/RED W/TAN LIMESTONE |
| 715 | 760 | RED W/TAN SANDSTONE |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-----------|-----------------------|
| 5" | OD NEW | PVC SDR17 | +3 TO 850' .025 |

| | | |
|-----|-----|---------------|
| 760 | 770 | RED LIMESTONE |
| 770 | 850 | TRINITY SAND |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #54933

Owner: **JAKE COSTIN**

Owner Well #: **No Data**

Address: **8524 AXIS DRIVE
AUSTIN, TX 78749**

Grid #: **58-49-1**

Well Location: **11204 SOUTHWEST OAKS
AUSTIN, TX 78737**

Latitude: **30° 13' 02" N**

Longitude: **097° 58' 10" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/16/2005**

Drilling End Date: **2/16/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.625 | 0 | 30 |
| | 6.5 | 30 | 870 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 30 | 6 |

Seal Method: **Slurry**

Distance to Property Line (ft.): **N/A**

Sealed By: **C. T. D.**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **5 RUBBER & BURLAP 30',350',690',710',730'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 50 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 80 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS**

License Number: **4227**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 1 | TOP SOIL |
| 1 | 25 | CALICHE |
| 25 | 28 | BLUE LIMESTONE |
| 28 | 310 | GRAY LIMESTONE |
| 310 | 340 | GRAY/TAN LIMESTONE |
| 340 | 490 | GRAY LIMESTONE |
| 490 | 540 | TAN LIMESTONE |
| 540 | 600 | GRAY LIMESTONE |
| 600 | 630 | TAN/WHITE GRAY LIMESTONE |
| 630 | 660 | GRAY LIMESTONE |
| 660 | 705 | HAMMID CLAY LIMESTONE |
| 705 | 720 | HAMMID CLAY & RED LIMESTONE |
| 720 | 765 | GRAY/TAN LIMESTONE |
| 765 | 820 | RED SANDSTONE |
| 820 | 870 | TRINITY SANDSTONE |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|------------------|------------------------------|
| 5" | OD NEW | PVC SDR17 | +3 TO 870 .025 |

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #63065

Owner: **SCOTT HEMPHILL**

Owner Well #: **No Data**

Address: **PMB 122, 12400 HWY. 71 W.,STE.
AUSTIN, TX 78738**

Grid #: **58-49-1**

Well Location: **12400 HWY 71 PMB# 122
AUSTIN, TX 78738**

Latitude: **30° 13' 17" N**

Longitude: **097° 58' 12" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/2/2005**

Drilling End Date: **5/2/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.625 | 0 | 40 |
| | 6.125 | 40 | 890 |

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 40 | 6 CEMENT |
| | 0 | 40 | 3 VOLCLAY |

Seal Method: **Slurry**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **5 BURLAP,PVC 40',440',680',700',720'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 50 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 65 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS**

License Number: **4227**

Comments: **Amended 8/2/05 Ref.# 1855**

Report Amended on by Request #1855

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|------------------------|
| 0 | 1 | TOP SOIL-ROCK |
| 1 | 18 | CALICHE |
| 18 | 20 | BLUE LIMESTONE |
| 20 | 270 | GRAY LIMESTONE |
| 270 | 290 | GRAY W/TAN LIMESTONE |
| 290 | 340 | TAN LIMESTONE |
| 340 | 370 | GRAY LIMESTONE |
| 370 | 390 | GRAY W/STRIPS OF CLAY |
| 390 | 460 | GRAY LIMESTONE |
| 460 | 570 | GRAY/TAN LIMESTONE |
| 570 | 660 | GRAY LIMESTONE |
| 660 | 695 | HAMMID CLAY |
| 695 | 710 | HAMMID CLAY W/RED CLAY |
| 710 | 720 | GRAY LIMESTONE |
| 720 | 740 | GRAY/TAN LIMESTONE |
| 740 | 790 | TAN/RED SANDSTONE |
| 790 | 890 | RED SANDSTONE |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-------------|-----------------------|
| 5" | OD | N PVC SDR17 | +3 TO 890 .020 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #75848

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | CHARLES CHRISTAL | Owner Well #: | No Data |
| Address: | 10510 TENNETA HOUSTON, TX 77099 | Grid #: | 58-49-1 |
| Well Location: | 11097 FITZHUGH RD. AUSTIN, TX 78737 | Latitude: | 30° 13' 06" N |
| Well County: | Travis | Longitude: | 097° 58' 03" W |
| | | Elevation: | 1148 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/21/2005** Drilling End Date: **12/22/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 10 |
| | 6.75 | 10 | 630 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 10 | 12 CEMENT |

Seal Method: **SLURRIED & POURED**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **539 ft. below land surface on 2005-12-23** Measurement Method: **Unknown**

Packers: **NEOPRENE 13
NEOPRENE 590**

Type of Pump: **Submersible** Pump Depth (ft.): **610**

Well Tests: **Jetted** Yield: **20 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **BOBBY ROBERTS** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 1 | TOPSOIL |
| 1 | 12 | CALICHE |
| 12 | 25 | TAN SHALE |
| 25 | 65 | GREY CLAY |
| 65 | 410 | GREY LIMESTONE |
| 410 | 485 | GREY & WHITE ROCK |
| 485 | 595 | GREY LIMESTONE |
| 595 | 630 | GREY & WHITE ROCK W/B 20 GPM TDS 1000 |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------|------------------------------|
| 4.5 | NEW | PLASTIC | 0 - 595 |
| 4.5 | NEW | SCREEN MFG. | 595 - 630 .050 |

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #75955

Owner: **Austin Outline**

Owner Well #: **No Data**

Address: **P. O. Box 91956
Austin, TX 78709**

Grid #: **58-49-1**

Well Location: **Off Fitzhugh and Long Branch
Austin, TX**

Latitude: **30° 13' 30" N**

Longitude: **097° 58' 30" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/29/2004**

Drilling End Date: **1/29/2004**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 50 |
| | 6.25 | 50 | 710 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 40 | 8 |

Seal Method: **Slurry**

Distance to Property Line (ft.): **No Data**

Sealed By: **C.T.D.**

Distance to Septic Field or other
concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Well Drilled First**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **3 Burlap, PVC 40',560',580'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 40 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 40 | Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Central Texas Drilling, Inc.**
2520 Highway 290 West
Dripping Springs, TX 78620

Driller Name: **Aaron Glass**

License Number: **4227**

Comments: **\$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------------|
| 0 | 2 | Top Soil |
| 2 | 20 | Caliche |
| 20 | 22 | Blue Limestone |
| 22 | 350 | Gray Limestone |
| 350 | 351 | White Limestone |
| 351 | 410 | Gray Limestone w/Tan Limestone |
| 410 | 470 | Tan Limestone |
| 470 | 510 | Gray Limestone |
| 510 | 540 | Hammid Clay |
| 540 | 570 | Gray/Red Clay |
| 570 | 600 | Gray Limestone |
| 600 | 710 | Trinity Sand (Red) |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------|-----------------------|
| 5 OD | New | PVC -2 710 SDR17 | |

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Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #86207

Owner: **ALBERT LEDESMA**

Owner Well #: **No Data**

Address: **11205 Southwest Oaks
Austin, TX 78737**

Grid #: **58-49-1**

Well Location: **11205 Southwest Oaks
Austin, TX 78737**

Latitude: **30° 13' 02" N**

Longitude: **097° 58' 20" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/17/2006**

Drilling End Date: **4/17/2006**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6 | 100 | 880 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | 26 |

Seal Method: **Pressure Tremie**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **6 PVC & Burlap at 100', 400', 490', 670', 720', 740'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 20 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 45 | Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Western Water Wells**
500 Southland Drive
Burnet, TX 78611

Driller Name: **Frank Glass**

License Number: **1313**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|------------------------------|
| 0 | 1 | Top soil |
| 1 | 15 | Caliche |
| 15 | 95 | Blue lime |
| 95 | 270 | Gray lime |
| 270 | 300 | Brown lime |
| 300 | 415 | Gray & brown lime |
| 415 | 425 | Brown lime |
| 425 | 590 | Gray & brown |
| 590 | 640 | White & tan lime |
| 640 | 670 | Gray lime |
| 670 | 720 | Hammond |
| 720 | 780 | Brown sandstone |
| 780 | 880 | Trinity |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|----------------|------------------------------|
| 4.5" | New | Plastic | +2-880 SDR 17 |

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #91995

Owner: **Charles Gaddy, Jr.**

Owner Well #: **No Data**

Address: **19 Tall Oaks Trail
Austin, TX 78737**

Grid #: **58-49-1**

Well Location: **19 Tall Oaks Trail
Austin, TX 78737**

Latitude: **30° 12' 59" N**

Longitude: **097° 59' 17" W**

Well County: **Hays**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/29/2006**

Drilling End Date: **8/29/2006**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | 0 | 30 |
| | 6.5 | 30 | 905 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 30 | 7 of Portland |

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Neoprene 700', 680', 300', 30'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 55-60 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 715-880 | Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------|
| 0 | 23 | Caliche |
| 23 | 70 | Blue Limestone |
| 70 | 280 | Light Grey-Tan Limestone |
| 280 | 345 | Clay |
| 345 | 495 | Tan Limestone |
| 495 | 545 | White Limestone |
| 545 | 595 | Grey Limestone |
| 595 | 655 | Clay |
| 655 | 715 | Grey Sandstone |
| 715 | 740 | Red Sand |
| 740 | 770 | Red Sandstone-Clay |
| 770 | 800 | Sand |
| 800 | 840 | Red Sandstone |
| 840 | 880 | Gravel-Sand |
| 880 | 900 | Tan Limestone |
| 900 | 905 | Blue Clay |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|--------------|----------|-------------|-----------------------|
| 4.5" (5" OD) | New | PVC | +2' to 740' SDR17 |
| 4.5" (5" OD) | New | Slotted PVC | 740' to 760' .035 |
| 4.5" (5" OD) | New | PVC | 760' to 780' SDR17 |
| 4.5" (5" OD) | New | Slotted PVC | 780' to 800' .035 |
| 4.5" (5" OD) | New | PVC | 800' to 840' SDR17 |
| 4.5" (5" OD) | New | Slotted PVC | 840' to 880' .035 |
| 4.5" (5" OD) | New | PVC | 880' to 905' SDR17 |

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #93834

Owner: **CARRELL HOMES**

Owner Well #: **No Data**

Address: **12016 HWY. 290 WEST, STE. 5
AUSTIN, TX 78737**

Grid #: **58-49-1**

Well Location: **16 TALL OAKS TRAIL
AUSTIN, TX 78737**

Latitude: **30° 12' 43" N**

Longitude: **097° 59' 15" W**

Well County: **Hays**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/26/2006**

Drilling End Date: **6/26/2006**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.625 | 0 | 100 |
| | 6.5 | 100 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | 11 CEMENT |
| | 0 | 100 | 17 VOLCLAY |

Seal Method: **PRESSURE TRIMMY
CEMENTING**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **506.4 ft. below land surface on 2006-06-29** Measurement Method: **Unknown**

Packers: **7 BURLAP,PVC,RUBBER 100',120',600',620'
640',660',680'**

Type of Pump: **Submersible**

Well Tests: **Jetted** Yield: **40 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 65 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **updated lat/long by TWDB on 2/15/08 - BA**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|------------------------|
| 0 | 2 | TOP SOIL |
| 2 | 18 | CALICHE |
| 18 | 22 | BLUE LIMESTONE |
| 22 | 230 | GRAY LIMESTONE |
| 230 | 310 | GRAY/TAN LIMESTONE |
| 310 | 420 | GRAY LIMESTONE |
| 420 | 490 | TAN LIMESTONE |
| 490 | 600 | GRAY/TAN SANDSTONE |
| 600 | 610 | GRAY LIMESTONE |
| 610 | 650 | HAMMID CLAY |
| 650 | 665 | HAMMID CLAY W/RED CLAY |
| 665 | 710 | GRAY/TAN LIMESTONE |
| 710 | 740 | RED SANDSTONE |
| 740 | 780 | RED/GRAY LIMESTONE |
| 780 | 840 | SANDSTONE W/GRAVEL |
| 840 | 850 | RED/TAN LIMESTONE |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------|-----------------------|
| 5" | OD | N PVC SDR17 | +3 TO 850 |
| 5" | OD | N PVC SDR17 SLOT | 720 TO 740 .032 |
| 5" | OD | N PVC SDR17 SLOT | 760 TO 780 .032 |
| 5" | OD | N PVC SDR17 SLOT | 800 TO 840 .032 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #126859

Owner: **FRANK CAPPARELLI**

Owner Well #: **No Data**

Address: **9107 BARRY KNOLL ST.
AUSTIN, TX 78729**

Grid #: **58-49-1**

Well Location: **18 TALL OAKS TRAIL
AUSTIN, TX 78737**

Latitude: **30° 12' 59" N**

Longitude: **097° 59' 24" W**

Well County: **Hays**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/25/2007**

Drilling End Date: **9/25/2007**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 50 |
| | 6.5 | 50 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 60 | 8 CEMENT |
| | 0 | 60 | 7 VOLCLAY |

Seal Method: **Slurry**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **WELL DRILLED
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **486.6 ft. below land surface on 2007-08-29**

Measurement Method: **Unknown**

Packers: **7 BURLAP,PVC,RUBBER 60',100',620',640',660',
680',780'**

Type of Pump: **CASED**

Well Tests: **Jetted** **Yield: 50 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 80 | TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **AARON GLASS**

License Number: **4227**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|------------------------|
| 0 | 2 | TOP SOIL |
| 2 | 18 | CALICHE |
| 18 | 20 | BLUE LIMESTONE |
| 20 | 310 | GRAY LIMESTONE |
| 310 | 490 | GRAY/TAN LIMESTONE |
| 490 | 570 | TAN LIMESTONE |
| 570 | 600 | GRAY/TAN LIMESTONE |
| 600 | 610 | GRAY LIMESTONE |
| 610 | 650 | HAMMIT CLAY |
| 650 | 680 | HAMMIT CLAY W/RED CLAY |
| 680 | 690 | GRAY LIMESTONE |
| 690 | 720 | GRAY/TAN SANDSTONE |
| 720 | 750 | GRAY/TAN/RED SANDSTONE |
| 750 | 760 | RED SAND |
| 760 | 770 | RED SHALE |
| 770 | 850 | RED SAND |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------|-----------------------|
| 5" | OD | N SDR17 PVC | +3 TO 850 |
| 5" | OD | N SDR17 PVC SLOT | 700 TO 760 .032 |
| 5" | OD | N SDR17 PVC SLOT | 800 TO 840 .032 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #129190

| | | | |
|----------------|---|---------------|---------------------------------|
| Owner: | BILLY & PAT SIMPSON | Owner Well #: | No Data |
| Address: | 201 SPANISH OAK TRL DRIPPING SPRINGS, TX 78620 | Grid #: | 58-49-1 |
| Well Location: | 11211 RUTTER LANE AUSTIN, TX 78736 | Latitude: | 30° 13' 20" N |
| Well County: | Travis | Longitude: | 097° 57' 52" W |
| | | Elevation: | 1132 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **11/14/2007** Drilling End Date: **11/14/2007**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 10 | 0 | 12 |
| | 6.75 | 12 | 630 |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 6 | 5 |
| | 6 | 12 | 6 |

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **512 ft. below land surface on 2007-11-15** Measurement Method: **Unknown**

Packers: **NEOPRENE 12
NEOPRENE 555
NEOPRENE 560**

Type of Pump: **Submersible** Pump Depth (ft.): **600**

Well Tests: **Jetted** Yield: **20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING INC**
185 ANGELFIRE DR
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR** License Number: **54416**

Apprentice Name: **CESAR RAMOS** Apprentice Number: **57534**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------------|
| 0 | 1 | TOPSOIL |
| 1 | 12 | GRAY ROCK |
| 12 | 510 | GRAY LIMESTONE |
| 510 | 590 | BROWN & GRAY ROCK |
| 590 | 630 | GRAY ROCK W/B 20 GPM TDS 1370 |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------|-----------------------|
| 4.5 | NEW | PLASTIC | 0-560 |
| 4.5 | NEW | SCREEN MFG | 560-630 .050 |

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #165528

| | | | |
|----------------|---|---------------|---------------------------------|
| Owner: | EDDIE SLACK | Owner Well #: | No Data |
| Address: | 12605 FITZHUGH RD AUSTIN, TX 78736 | Grid #: | 58-49-1 |
| Well Location: | 12605 FITZHUGH RD AUSTIN, TX 78736 | Latitude: | 30° 13' 42" N |
| Well County: | Travis | Longitude: | 097° 59' 14" W |
| | | Elevation: | 1066 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/30/2008** Drilling End Date: **12/31/2008**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 10 | 0 | 12 |
| | 6.75 | 12 | 800 |

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 12 | 9 |

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other
concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **STEEL TAPE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **452 ft. below land surface on 2009-01-05** Measurement Method: **Unknown**

Packers: **NEOPRENE 12
NEOPRENE 740
NEOPRENE 745**

Type of Pump: **Submersible** Pump Depth (ft.): **700**

Well Tests: **Jetted** Yield: **60 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING INC**
185 ANGELFIRE DR
DRIPPING SPRINGS, TX 78620

Driller Name: **BOBBY ROBERTS** License Number: **54416**

Apprentice Name: **CESAR RAMOS** Apprentice Number: **57534**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 7 | SURFACE ROCK |
| 7 | 250 | GREY LIMESTONE |
| 250 | 253 | CAVE |
| 253 | 550 | GREY AND BROWN ROCK |
| 550 | 610 | BLUE SHALE |
| 610 | 655 | BROWN ROCK |
| 655 | 710 | RED SHALE |
| 710 | 730 | RED SANDSTONE |
| 730 | 740 | RED CLAY |
| 740 | 800 | WHITE & BLACK ROCK W/B 60 GPM TDS 1000 |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------|-----------------------|
| 4.5 | NEW | PLASTIC | 0-750 |
| 4.5 | NEW | SCREEN MFG | 750-790 |
| 4.5 | NEW | PLASTIC | 790-800 |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #199651

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | BARRY SCHWARTZ | Owner Well #: | 001 |
| Address: | 1726 W. 11TH ST. AUSTIN, TX 78703 | Grid #: | 58-49-1 |
| Well Location: | 11404 SOUTHWEST OAKS AUSTIN, TX 78737 | Latitude: | 30° 13' 08" N |
| Well County: | Travis | Longitude: | 097° 58' 26" W |
| | | Elevation: | 1122 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **10/19/2009** Drilling End Date: **10/20/2009**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 10 | 0 | 12 |
| | 6.75 | 12 | 870 |

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 6 | 7 CEMENT |
| | 6 | 12 | 5 BENTONITE |

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other
concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **STEEL TAPE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **560 ft. below land surface on 2009-10-21** Measurement Method: **Unknown**

Packers: **1 NEOPRENE 12**
1 NEOPRENE 565 & 568
1 NEOPRENE 690 & 698
1 NEOPRENE 800 & 805

Type of Pump: **Submersible** Pump Depth (ft.): **800**

Well Tests: **Jetted** **Yield: 60 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR** License Number: **54416**

Apprentice Name: **CESAR RAMOS** Apprentice Number: **3090**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------------------|
| 0 | 2 | TOPSOIL |
| 2 | 6 | TAN SHALE |
| 6 | 510 | GRAY LIMESTONE |
| 510 | 630 | TAN ROCK W/B 7 GPM TDS 1600 |
| 630 | 690 | BLUE SHALE |
| 690 | 750 | BROWN ROCK W/B 50 GPM TDS 1000 |
| 750 | 770 | RED CLAY |
| 770 | 800 | GRAY ROCK |
| 800 | 810 | RED SANDSTONE |
| 810 | 870 | TAN ROCK W/B 60 GPM TDS 800 |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|---------|-----------------------|
| 4.5 | NEW | PLASTIC | 0 810 |
| 4.5 | NEW | SCREEN | MFG. 810 870 .050 |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #216008

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Sparks, Rick | Owner Well #: | Well#1 |
| Address: | 4 Long Creek Drive Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 4 Long Creek Drive Austin, TX 78737 | Latitude: | 30° 13' 00" N |
| Well County: | Hays | Longitude: | 097° 59' 03" W |
| | | Elevation: | 1069 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **4/22/2010** Drilling End Date: **4/29/2010**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.88 | 0 | 800 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 40 | 14portland1hp |
| | 635 | 660 | 3portland1bense |

Seal Method: **Pressure Grout**

Distance to Property Line (ft.): **52**

Sealed By: **Whisenant & Lyle Water
Service Inc.**

Distance to Septic Field or other
concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **358 ft. below land surface on 2010-04-23** Measurement Method: **Unknown**

Packers: **6MIL POLY- 40'**
6MIL POLY/SHALE PACKER- 660'

Type of Pump: **Submersible** Pump Depth (ft.): **680**

Well Tests: **Jetted** Yield: **20+ GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|-------------|
| 680' - 780' | GOOD |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Service Inc**
P.O. Box 525
Dripping Springs, TX 78620

Driller Name: **Martin D Lingle** License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|------------|--------------|----------------------------------|
| 0 | 2 | top soil |
| 2 | 9 | brown limestone |
| 9 | 18 | grey limestone |
| 18 | 95 | grey tan limestone |
| 95 | 110 | tan limestone |
| 110 | 304 | brown grey limestone |
| 304 | 306 | brown limestone fractured |
| 306 | 330 | grey limestone |
| 330 | 400 | brown limestone |
| 400 | 420 | brown grey limestone |
| 420 | 520 | brown limestone fractured |
| 520 | 530 | brown grey limestone |
| 530 | 580 | grey limestone |
| 580 | 610 | grey clay |
| 610 | 640 | grey limestone |
| 640 | 660 | grey tan limestone |
| 660 | 690 | grey brown limestone |
| 690 | 710 | grey red limestone |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|--------------------------|-----------------------|
| 4.5 | N | PVC-SDR17IB | +2'-680' |
| 4.5 | N | PVC-17SLOTTED.085 | 680'-780' |
| 4.5 | N | PVC-SDR17IB | 780'-800' |

| | | |
|-----|-----|--------------|
| 710 | 800 | conglomerate |
|-----|-----|--------------|

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #277708

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Robert Medlin | Owner Well #: | 1 |
| Address: | 11901 Oak Branch Dr. Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 11901 Oak Branch Dr. Austin, TX 78737 | Latitude: | 30° 13' 09" N |
| Well County: | Hays | Longitude: | 097° 58' 59" W |
| | | Elevation: | 1053 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/14/2011** Drilling End Date: **12/19/2011**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 60 | 2h1plg12ptldcmt |

Seal Method: **Pos. displacement**

Sealed By: **Driller**

Distance to Property Line (ft.): **55**

Distance to Septic Field or other
concentrated contamination (ft.): **75**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **490 ft. below land surface on 2011-12-19** Measurement Method: **Unknown**

Packers:

- 6Mil-poly 60**
- 6Mil-poly 180**
- 6Mil-poly 300**
- 6Mil-poly 460**
- 6Mil-poly/ Shale packer 600**
- 6Mil-poly 760**

Type of Pump: **Submersible** Pump Depth (ft.): **740**

Well Tests: **Jetted** Yield: **20+ GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 740/ 840 | Good |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**
PO Box 525
Dripping Springs, TX 78620

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------|
| 0 | 1 | Topsoil |
| 1 | 2 | Yellow limestone |
| 2 | 37 | Light gray limestone |
| 37 | 42 | Gray tan limestone |
| 42 | 57 | Light gray limestone |
| 57 | 60 | Tan Limestone |
| 60 | 90 | Light gray tan limestone |
| 90 | 100 | Dark gray limestone |
| 100 | 188 | Tan gray limestone |
| 188 | 375 | Gray limestone |
| 375 | 550 | Tan brown limestone |
| 550 | 580 | Gray clay |
| 580 | 620 | Gray brown limestone |
| 620 | 660 | Red gray limestone |
| 660 | 680 | Brown tan limestone |
| 680 | 710 | Gray tan limestone |
| 710 | 743 | Red Sandstone |
| 743 | 847 | Calcite |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|---------------------|-----------------------|
| 4.5 | New | PVC-SDR 17IB +12/ | 740 |
| 4.5 | New | PVC-17 Slotted .035 | 740/840 |
| 4.5 | New | PVC-SDR 17IB | 840/850 |

| | | |
|-----|-----|------------|
| 847 | 850 | Black rock |
|-----|-----|------------|

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #317797

Owner: **Helen Feistel**

Owner Well #: **No Data**

Address: **12507 Fitzhugh Rd.
Austin, TX 78736**

Grid #: **58-49-1**

Well Location: **12507 Fitzhugh Rd.
Austin, TX 78736**

Latitude: **30° 13' 53" N**

Longitude: **097° 59' 07" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/22/2013**

Drilling End Date: **2/22/2013**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 50 |
| | 6.125 | 50 | 750 |

Drilling Method: **Air Rotary**

Borehole Completion: **cased; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 1 | 50 | 7cmt 3gel |

Seal Method: **gravity hand poured**

Distance to Property Line (ft.): **50+**

Sealed By: **ADC**

Distance to Septic Field or other
concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **390 ft. below land surface on 2013-02-22** Measurement Method: **Unknown**

Packers: **burlap,plastic,rubber @ 650,630,510,50**

Type of Pump: **Submersible** Pump Depth (ft.): **0**

Well Tests: **Jetted** Yield: **30-35 GPM**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | n/a | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 640-735 | trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc.**
12928 Lowden Ln.
Manchaca, TX 78652

Driller Name: **James Benoit**

License Number: **4064**

Comments: **Glass Well Service**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------------|
| 0 | 30 | tan and white limestone |
| 30 | 390 | gray lime |
| 390 | 410 | tan lime |
| 410 | 480 | tan and white limestone |
| 480 | 555 | gray limestone |
| 555 | 590 | gray shale |
| 590 | 640 | gray and white limestone |
| 640 | 660 | brown limestone |
| 660 | 700 | red sandstone |
| 700 | 735 | yellow limestone |
| 735 | 750 | gray limestone w/clay |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-------------------------|-----------------------|
| 5 od. | new | sdr17 pvc | -3 to 670 |
| 5 od. | new | sdr17 pvc (.032) screen | 670 to 750 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #341367

Owner: **Robert Hardy / Cert. Homes**

Owner Well #: **No Data**

Address: **11501 Antler Bend Rd.
Austin, TX 78737**

Grid #: **58-49-1**

Well Location: **11501 Antler Bend Rd.
Austin, TX 78737**

Latitude: **30° 13' 10" N**

Longitude: **097° 58' 08" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/22/2013**

Drilling End Date: **7/22/2013**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 50 |
| | 6.25 | 50 | 910 |

Drilling Method: **Air Rotary**

Borehole Completion: **cased; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 1 | 50 | 6cmt 3gel |

Seal Method: **hand poured**

Distance to Property Line (ft.): **55**

Sealed By: **ADC**

Distance to Septic Field or other
concentrated contamination (ft.): **110+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **owner / tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **490 ft. below land surface on 2013-07-22** Measurement Method: **Unknown**

Packers: **burlap,plastic,rubber @ 750,730,50**

Type of Pump: **Submersible**

Pump Depth (ft.): **740**

Well Tests: **Jetted** **Yield: 15-20 GPM**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | n/a | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------------------|
| 750-910 | hosston trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc.**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit** License Number: **4064**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| From (ft) | To (ft) | Description |
|----------------|----------------|-----------------------|
| 0-10 | white | chalk |
| 10-410 | gray | lime |
| 410-430 | gray | limestone |
| 430 | lost | returns |
| 430-670 | med. | hard lime |
| 670-690 | soft | shale/clay |
| 690-750 | med. | hard limestone |
| 750-910 | trinity | sands |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|-----------|-----------------------------|--------------------------|
| 5 | od | new sdr17 pvc | -3 to 830 |
| 5 | od | new sdr17 pvc (.032) | screen 830 to 910 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #369065

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Marianne Mason | Owner Well #: | No Data |
| Address: | 30 Tall Oaks Trail Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 30 Tall Oaks Trail Austin, TX 78737 | Latitude: | 30° 13' 08" N |
| Well County: | Hays | Longitude: | 097° 59' 14" W |
| | | Elevation: | 1115 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **5/20/2014** Drilling End Date: **6/10/2014**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.75 | 0 | 900 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | 5bns1hlp.5tH |

Seal Method: **Pos. displacement**

Sealed By: **Driller**

Distance to Property Line (ft.): **15**

Distance to Septic Field or other
concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **540 ft. below land surface on 2014-05-21** Measurement Method: **Unknown**

Packers: **6Mil Poly-Shale packer 100**
6Mil Poly 120
6Mil Poly 200
6Mil Poly 400
6Mil Poly 580
6Mil Poly 640
6Mil Poly 660

Type of Pump: **Submersible** Pump Depth (ft.): **800**

Well Tests: **Jetted** **Yield: 20+ GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|--------------|
| 740 to 900 | Good TDS 700 |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Trave Haffelder**

Apprentice Number: **58603**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------|
| 0 | 2 | Topsoil |
| 2 | 4 | White gray limestone |
| 4 | 6 | Brown limestone |
| 6 | 10 | Brown limestone clay |
| 10 | 120 | Gray limestone |
| 120 | 145 | Tan gray limestone |
| 145 | 175 | Tan limestone |
| 175 | 296 | Gray tan limestone |
| 296 | 305 | Gray shale |
| 305 | 320 | Gray shale limestone |
| 320 | 360 | Gray tan limestone |
| 360 | 370 | Gray shale limestone |
| 370 | 570 | Tan limestone |
| 570 | 610 | Gray limestone |
| 610 | 640 | Gray clay |
| 640 | 660 | Gray limestone |
| 660 | 720 | Gray tan limestone |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|----------------|-----------------------|
| 4.5 | New | PVC-SDR 171B | +2 to 800 |
| 4.5 | New | PVC-17 slotted | .035 800 to 900 |

| | | |
|-----|-----|--------------------------|
| 720 | 740 | Tan red limestone 3-5gpm |
| 740 | 745 | Calcite |
| 745 | 760 | Red tan limestone |
| 760 | 800 | Tan brown limestone |
| 800 | 900 | Calcite |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #394577

Owner: **Robert Hardy**

Owner Well #: **No Data**

Address: **11408 Southwest Oaks
Austin, TX 78737**

Grid #: **58-49-1**

Well Location: **11408 Southwest Oaks
Austin, TX 78737**

Latitude: **30° 13' 10" N**

Longitude: **097° 58' 29" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/8/2015**

Drilling End Date: **4/8/2015**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 50 |
| | 6.25 | 50 | 890 |

Drilling Method: **Air Rotary**

Borehole Completion: **cased; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | -1 | 50 | 7cmt 2gel |

Seal Method: **hand poured**

Distance to Property Line (ft.): **>60**

Sealed By: **ADC**

Distance to Septic Field or other
concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **well drilled first**

Surface Completion: **Surface Sleeve Installed**

Water Level: **513 ft. below land surface on 2015-04-08** Measurement Method: **Unknown**

Packers: **burlap,plastic,rubber @ 730,725,630,50**

Type of Pump: **No Data**

Well Tests: **Jetted** Yield: **20-25 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|-----------------------|
| 513-890 | Trinity Hoston |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc.**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit** License Number: **4064**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|------------|--------------|---------------------------------------|
| 0 | 15 | white chalk |
| 15 | 515 | gray lime |
| 515 | 560 | tan white limestone |
| 560 | 640 | gray white limestone |
| 640 | 670 | gray shale |
| 670 | 715 | tan white limestone |
| 715 | 750 | red sandstone |
| 750 | 760 | red white sandstone (h2o) |
| 760 | 860 | red sandstone |
| 860 | 880 | multi-colored limestones (h2o) |
| 880 | 890 | yellow limestone |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|-------------|------------|--------------------------------|-----------------------|
| 5 od | new | sdr17 pvc | -3 to 790 |
| 5 od | new | sdr17 pvc (.032) screen | 790 to 870 |
| 5 od | new | sdr17 pvc | 870 to 890 |

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #404319

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | Treaty Oak Homes:Greg Hammond | Owner Well #: | #1 |
| Address: | 5701 W. Slaughter Ln A-130-362 Austin, TX 78749 | Grid #: | 58-49-1 |
| Well Location: | 3 Long Creek Rd Austin, TX 78737 | Latitude: | 30° 13' 04" N |
| Well County: | Hays | Longitude: | 097° 59' 03" W |
| | | Elevation: | 1064 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: 7/31/2015 Drilling End Date: 8/12/2015

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 7.875 | 0 | 880 |

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

| | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| Annular Seal Data: | 0 | 50 | 12 Cement |
| | 50 | 60 | 4 Bentonite |

Seal Method: Pos. Displacement

Distance to Property Line (ft.): 51

Sealed By: Driller

Distance to Septic Field or other
concentrated contamination (ft.): N/A

Distance to Septic Tank (ft.): No Data

Method of Verification: Measured

Surface Completion: Surface Sleeve Installed

Water Level: 475 ft. below land surface on 2015-08-03 Measurement Method: Unknown

Packers:

- Shale Packer 60
- 6Mil Poly 63
- Shale Packer 70
- 6Mil Poly 73
- 6Mil Poly 300
- 6Mil Poly 500
- Shale Packer 605
- 6Mil Poly 610
- Shale Packer 615
- 6Mil Poly 618

Type of Pump: **Submersible**

Pump Depth (ft.): **700**

Well Tests: **Jetted**

Yield: 30 GPM

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|---------------------|
| 660/880 | Good TDS 700 |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>From (ft)</i> | <i>To (ft)</i> | <i>Description</i> |
|------------------|----------------|-----------------------------|
| 0 | 1 | Topsoil |
| 1-5 | | Brown clay limestone |
| 5-85 | | Gray limestone |
| 85-130 | | Tan limestone |
| 130-185 | | Light gray limestone |
| 185-310 | | Gray tan limestone |
| 310-400 | | Tan limestone |
| 400-425 | | Gray limestone |
| 425-440 | | Gray limestone shale |
| 440-490 | | Tan limestone |
| 490-560 | | Gray tan limestone |
| 560-590 | | Gray clay |
| 590-630 | | Brown limestone |
| 630-640 | | Brown tan limestone |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|-----------------------|------------------------------|
| 4.5 | New | PVC-SDR 171B | +2/780 |
| 4.5 | New | PVC-17 Slotted | 780/860 .032 |
| Open Hole | | | 860/880 |

| |
|-----------------------------|
| 640-680 Red brown sandstone |
| 680-720 Red sandstone |
| 720-740 Conglomerate |
| 740-760 Red brown sandstone |
| 760-875 Conglomerate |
| 875-880 Black Rock |
| Water bearing 660-880 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #407580

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | GASTON BROYLES | Owner Well #: | No Data |
| Address: | 11800 OAK BRANCH DRIVE AUSTIN, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 11800 OAK BRANCH DRIVE AUSTIN, TX 78737 | Latitude: | 30° 13' 13.08" N |
| Well County: | Travis | Longitude: | 097° 58' 49.92" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **8/19/2015** Drilling End Date: **8/19/2015**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.5 | 100 | 830 |

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | Cement 16 Bags/Sacks |
| | 0 | 100 | Bentonite 4 Bags/Sacks |
| | 580 | 600 | Cement 3 Bags/Sacks |

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **55+**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **100+**

Method of Verification: **OWNER**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **531 ft. below land surface on 2015-08-20** Measurement Method: **JETTED**

Packers:

- BURLAP & PVC at 100 ft.**
- BURLAP & PVC at 600 ft.**
- BURLAP & PVC at 620 ft.**
- BURLAP & PVC at 640 ft.**
- BURLAP & PVC at 660 ft.**
- BURLAP & PVC at 680 ft.**
- BURLAP & PVC at 700 ft.**

Type of Pump: **Submersible**Pump Depth (ft.): **740**Well Tests: **No Test Data Specified**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 80 - 830 | TRINITY |

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTEX PUMP & SUPPLY, INC.****2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620**Driller Name: **AARON GLASS**License Number: **4227**Comments: **No Data**Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIALCasing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|---|
| 0 | 1 | TOP SOIL |
| 1 | 20 | CALICHE |
| 20 | 25 | BLUE/GRAY LIMESTONE |
| 25 | 160 | GRAY LIMESTONE |
| 160 | 320 | GRAY/TAN LIMESTONE |
| 320 | 390 | TAN/GRAY LIMESTONE W/CLAY STRIPS |
| 390 | 470 | TAN LIMESTONE |
| 470 | 570 | TAN W/GRAY LIMESTONE |
| 570 | 605 | BROWN LIMESTONE |
| 605 | 670 | GRAY LIMESTONE W/HAMMETT CLAY |
| 670 | 710 | GRAY/TAN LIMESTONE |

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|----------------------|----------------------------------|------------------------------|----------------------|------------------|-------------------------|
| 5 | Blank | New Plastic (PVC) | 120 | 3 | 830 |
| 5 | Perforated or Slotted | New Plastic (PVC) | 120 0.032 | 720 | 820 |

| | | |
|-----|-----|----------------------|
| 710 | 820 | RED/TAN SANDSTONE |
| 820 | 830 | RED/BLUE CLAY STRIPS |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #442967

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | HAYDEN NOBLE | Owner Well #: | No Data |
| Address: | 26 TALL OAK TRAIL AUSTIN, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 26 TALL OAKS TRAIL AUSTIN, TX 78737 | Latitude: | 30° 13' 07.2" N |
| Well County: | Hays | Longitude: | 097° 59' 25.26" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/13/2016** Drilling End Date: **12/13/2016**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.125 | 100 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | Cement 14 Bags/Sacks |
| | 0 | 100 | Bentonite 2 Bags/Sacks |

Seal Method: **Slurry**

Distance to Property Line (ft.): **53**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **200+**

Distance to Septic Tank (ft.): **250+**

Method of Verification: **TAPE MEASURE**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **500 ft. below land surface on 2016-12-13** Measurement Method: **Electric Line**

Packers: **Burlap at 100 ft.
BURLAP & PVC at 640 ft.
BURLAP & PVC at 660 ft.
BURLAP & PVC at 680 ft.
BURLAP & PVC at 700 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **760**

Well Tests: **Jetted** **Yield: 40 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|---------------|
| 755 - 850 | LOWER TRINITY |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.**
2520 Hwy. 290 West
Dripping Springs, TX 78620

Driller Name: **MARTIN DALE LINGLE, JR.**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 1 | TOP SOIL |
| 1 | 10 | CALICHE |
| 10 | 225 | GRAY LIMESTONE |
| 225 | 230 | GRAY LIMESTONE |
| 230 | 350 | GRAY & TAN LIMESTONE |
| 350 | 355 | GRAY LIMESTONE & GRAY CLAY |
| 360 | 430 | TAN & GRAY LIMESTONE |
| 430 | 590 | TAN LIMESTONE |
| 590 | 635 | GRAY/TAN W/BROWN LIMESTONE |
| 635 | 680 | HAMMETT CLAY |
| 680 | 695 | HAMMETT CLAY W/RED CLAY |
| 695 | 755 | GRAY/TAN LIMESTONE |
| 755 | 850 | SAND |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-----------------------|-------------------|------------|-----------|--------------|
| 5 | Blank | New Plastic (PVC) | SDR17 | 3 | 750 |
| 5 | Perforated or Slotted | New Plastic (PVC) | SDR17 SLOT | 750 | 850 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #501931

Owner: **Proposed 7-Eleven # 38575** Owner Well #: **TMW-1**
Address: **Oak Branch Drive & Hwy 290** Grid #: **58-49-1**
Austin, TX 78737
Well Location: **Oak Branch Drive & Hwy 290** Latitude: **30° 12' 32.06" N**
Austin, TX 78737 Longitude: **097° 58' 24.36" W**
Well County: **Hays** Elevation: **1191 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #183814

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/10/2019**

Drilling End Date: **1/10/2019**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 42.5 |

Drilling Method: **Air Rotary**

Borehole Completion: **Perforated or Slotted**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 5 | Bentonite 2 Bags/Sacks |
| | 5 | 42.5 | Sand 22 Bags/Sacks |

Seal Method: **Poured**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Roddy Qualls Environmental Drilling**
314 thomas pl
everman, TX 76140

Driller Name: **Jon Storm**

License Number: **5003**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-------------------|
| 0 | 0.5 | Brown Silty Loam |
| 0.5 | 1 | Lt. Tan Loam |
| 1 | 42.5 | Lt. Tan Limestone |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|--------|-------------------|-------------|-----------|--------------|
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 7.5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 7.5 | 42.5 |

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #548438

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Kevin Hurwitz | Owner Well #: | No Data |
| Address: | 11340 Rim Rock Trail Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 11340 Rim Rock Trail Austin, TX 78737 | Latitude: | 30° 12' 55" N |
| | | Longitude: | 097° 57' 55" W |
| Well County: | Travis | Elevation: | 1115 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **5/15/2020** Drilling End Date: **5/15/2020**

| Borehole: | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| | 10.625 | 0 | 10 |
| | 8.5 | 10 | 50 |
| | 6.75 | 50 | 625 |

Drilling Method: **Air Rotary**

Borehole Completion: **Perforated or Slotted**

| Annular Seal Data: | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| | 0 | 40 | Cement 7 |
| | 40 | 50 | Bentonite 2 |

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **65**

Distance to Septic Field or other
concentrated contamination (ft.): **200**

Distance to Septic Tank (ft.): **200**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **No Data**

Packers: **Rubber at 50 ft.
Rubber at 55 ft.
Rubber at 495 ft.
Rubber at 500 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **600**

Well Tests: **Jetted** **Yield: 25 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Bee Cave Drilling, Inc.**
185 Angel Fire Dr.
Dripping Springs, TX 78620

Driller Name: **jim blair**

License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 1 | topsoil |
| 1 | 10 | tan caliche |
| 10 | 280 | grey limestone |
| 280 | 360 | tan limestone |
| 360 | 380 | grey limestone |
| 380 | 400 | tan/grey limestone |
| 400 | 450 | grey limestone |
| 450 | 480 | tan limestone |
| 480 | 500 | dark grey limestone |
| 500 | 540 | grey limestone wb 5 gpm at 950 tds |
| 540 | 625 | tan limestone wb 25 + gpm at 1400 tds |

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------------------|--------------------------|------------------|------------------|---------------------|
| 4.5 | Blank | New Plastic (PVC) | sdr-17 | 0 | 545 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | sdr-17 | 545 | 625 |

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #556235

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-1**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 9 |

Drilling Method: **SFA**

Borehole Completion: **Plugged**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.29 Bags/Sacks |
| | 2 | 9 | Bentonite 0.8 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal** License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 0.7 | Asphalt & Base Material. |
| 0.7 | 9 | Black silty clay, Glen Rose limestone, gravel, and silt backfill mixture (water saturated at 8.5' deep). |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------|-----------------------|
| No Data | | | |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556240

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-2**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 3 |

Drilling Method: **SFA**

Borehole Completion: **Plugged**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.29 Bags/Sacks |
| | 2 | 3 | Bentonite 0.11 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal** License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 1 | asphalt & base material |
| 1 | 2 | light gray to black silty clay |
| 2 | 3 | tan & buff Glen Rose limestone weathered rock |
| 3 | 3 | refusal at 3' on bedrock |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------|-----------------------|
| No Data | | | |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556241

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-3**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 2 |

Drilling Method: **SFA**

Borehole Completion: **Plugged**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.29 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal** License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 0.7 | asphalt & base material |
| 0.7 | 2 | black silty clay with fragments of weathered limestone |
| 2 | 2 | refusal at 2' on bedrock |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------|-----------------------|
| No Data | | | |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556283

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-4**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 3 |

Drilling Method: **SFA**

Borehole Completion: **Plugged**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.29 Bags/Sacks |
| | 2 | 3 | 0.11 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 0.8 | asphalt & base material with some perched water |
| 0.8 | 2 | fill - tan limestone gravel and tan/black/buff silt (second asphalt layer at 1.5') |
| 2 | 3 | tan & buff Glen Rose limestone weathered rock |
| 3 | 3 | refusal at 3' on bedrock |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------|-----------------------|
| No Data | | | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556291

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-5/TMW-1**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #203025

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 15 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 4 | 15 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | | | TEMP WELL |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| | |
|---------------------------|-------------------|
| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|---|
| 0 | 0.8 | asphalt & base material with some perched water |
| 0.8 | 2 | fill - tan limestone gravel and brown/black silty clay mix (rejected at 2' on bedrock) |
| 2 | 6 | tan & buff Glen Rose limestone with petroleum odor (solid flight auger drill cuttings) |
| 6 | 11 | buff Glen Rose marl, soft, moist to wet (core and cuttings) |
| 11 | 12 | tan to lt brown Glen Rose limestone layer (water saturated) |
| 12 | 15 | interlayered marl & limestone |

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|-------------------|--------------------------|------------------|------------------|---------------------|
| 1 | Top Cap | New Plastic (PVC) | 40 | | |
| 1 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 1 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 1 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 15 |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #556294

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **B-6/TMW-2**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.51" N**

Longitude: **097° 58' 04.92" W**

Well County: **Travis**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #203027

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **10/6/2020**

Drilling End Date: **10/6/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 4 | 0 | 15 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 4 | 15 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | | | TEMP WELL |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 1 | asphalt & base material with some perched water |
| 1 | 2.5 | black silty clay with limestone nodules (rejected at 3' on bedrock) |
| 2.5 | 10 | tan & buff Glen Rose limestone with petroleum odor at 5 - 7.5' (solid flight auger drill cuttings) |
| 10 | 10.5 | buff Glen Rose marl |
| 10.5 | 15 | dark gray shaley Glen Rose limestone - water saturated at 10.5 - 11' |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|------------|-------------------|-------------|-----------|--------------|
| 1 | Top Cap | New Plastic (PVC) | 40 | | |
| 1 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 1 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 1 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 15 |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #556724

| | | | |
|----------------|---|---------------|---------------------------------|
| Owner: | Nina Abraham | Owner Well #: | No Data |
| Address: | 12619-C Fitzhugh Road Austin, TX 78736 | Grid #: | 58-49-1 |
| Well Location: | 12619-C Fitzhugh Road Austin, TX 78736 | Latitude: | 30° 13' 34.74" N |
| Well County: | Travis | Longitude: | 097° 59' 23.88" W |
| | | Elevation: | 1080 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **9/15/2020** Drilling End Date: **9/15/2020**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.75 | 0 | 50 |
| | 6.25 | 50 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | -1 | 50 | 5 cement 2 benseal Bags/Sacks |

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **+150**

Distance to Septic Field or other
concentrated contamination (ft.): **+150**

Distance to Septic Tank (ft.): **+150**

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **551 ft. below land surface on 2020-09-15** Measurement Method: **Sonic/Radar**

Packers: **burlap 50'**
burlap and plastic 690', 670'

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 25-30 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|------------------------|
| 299 | Hosston Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc**
PO BOX 623
Dripping Springs, TX 78620

Driller Name: **James Benoit**License Number: **4064**Comments: **Drilled for Glass Well Services**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|----------------------------------|
| 0 | 2 | bedrock |
| 2 | 10 | white calachie |
| 10 | 425 | blue lime |
| 425 | 555 | tan lime |
| 555 | 605 | tan white limestone |
| 605 | 635 | grey lime and shale |
| 635 | 670 | white limestone |
| 670 | 710 | red sandstone |
| 710 | 730 | tan yellow limestone, H2O |
| 730 | 795 | red sandstone |
| 795 | 830 | tan white limestone, H2O |
| 830 | 850 | white yellow limestone |

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|---------------|--------------------------|--------------------|------------------|---------------------|
| 4.5 | Blank | New Plastic (PVC) | sdr17 | -3 | 750 |
| 4.5 | Screen | New Plastic (PVC) | sdr17 0.020 | 750 | 830 |
| 4.5 | Blank | New Plastic (PVC) | ser17 | 830 | 850 |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #566393

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-1**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.04" N**

Longitude: **097° 58' 05.66" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225786

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21.5 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 21.5 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Craig Wilcox**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 0.5 | asphalt & base material (fill) |
| 0.5 | 2 | red-brown to tan/brown silty clay (rejected at 2' on bedrock) |
| 2 | 10 | tan & buff Glen Rose limestone, moist at 7 - 8' (solid flight auger drill cuttings) |
| 10 | 15.5 | tan/buff marl, soft, wet |
| 15.5 | 21.5 | Glen Rose limestone layer with some buff marl |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-----------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #566401

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-4**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 41.08" N**

Longitude: **097° 58' 05.15" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225790

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 6 | 0 | 21 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|--------------|
| 3 | 21 | Sand | 12/20 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 2 | Concrete 0.58 Bags/Sacks |
| 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**

**4412 Bluemel Road
San Antonio, TX 78240**

Driller Name: **James E. Neal**License Number: **4868**Apprentice Name: **Craig Wilcox**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 1 | asphalt & base material (fill) |
| 1 | 3.5 | tan/black silty clay with limestone gravel - rejected at 3.5' on bedrock |
| 3.5 | 4.5 | Glen Rose Limestone dense (solid flight auger drill cuttings) |
| 4.5 | 8 | marl (buff at base) |
| 8 | 9 | Glen Rose limestone |
| 9 | 13.5 | buff marl with thin limestone layers at 11 - 13' |
| 13.5 | 15 | Glen Rose Limestone |
| 15 | 17.5 | marl with limestone interlayers |
| 17.5 | 21 | Glen Rose limestone |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-------------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #566402

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-5**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.04" N**

Longitude: **097° 58' 03.8" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225791

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 21 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Craig Wilcox**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 1 | asphalt & base material (fill) |
| 1 | 2 | limestone gravel, lt brown to buff (weathered?) |
| 2 | 3.5 | black silty clay - rejected at 3.5' on bedrock |
| 3.5 | 7 | tan to lt brown Glen Rose limestone with marl seam (solid flight auger drill cuttings) |
| 7 | 16 | lt brown to buff marl with thin limestone layers increasing in content with depth |
| 16 | 21 | Glen Rose Limestone (dense) |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-------------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #566403

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-6**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 40.82" N**

Longitude: **097° 58' 03.46" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225792

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 6 | 0 | 21 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|--------------|
| 3 | 21 | Sand | 12/20 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 2 | Concrete 0.58 Bags/Sacks |
| 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Craig Wilcox**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 1.5 | red-brown silty clay (fill?) |
| 1.5 | 2.5 | dk brown to black silty clay |
| 2.5 | 3.5 | tan limestone gravel with dk brown silty clay |
| 3.5 | 12 | tan to buff marl, moist to wet at 6.5' |
| 12 | 21 | Glen Rose Limestone |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-----------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #566405

Owner: **McCraw Oil Company, Inc.**

Owner Well #: **MW-7**

Address: **2207 North Center Street
Bonham, TX 75418**

Grid #: **58-49-1**

Well Location: **12009 US-290
Austin, TX 78737**

Latitude: **30° 12' 41.6" N**

Longitude: **097° 58' 04.26" W**

Well County: **Travis**

Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225793

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **1/27/2021**

Drilling End Date: **1/28/2021**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 21 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 21 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Craig Wilcox**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 1.5 | dk brown to brown silty clay |
| 1.5 | 2.5 | dk brown clay mixed with limestone gravel |
| 2.5 | 11 | tan to buff marl, moist to wet at 7 - 8' |
| 11 | 17.5 | Glen Rose Limestone (dense) |
| 17.5 | 21 | buff to tan marl |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-------------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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Texas Department of Licensing and Regulation
P.O. Box 12157
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #567555

| | | | |
|----------------|--------------------------------------|---------------|------------------|
| Owner: | KEVIN BADEEN (AART'S JOB) | Owner Well #: | No Data |
| Address: | 5 LONG CREEK RD. AUSTIN, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 5 LONG CREEK RD. AUSTIN, TX 78737 | Latitude: | 30° 13' 03.12" N |
| Well County: | Hays | Longitude: | 097° 59' 00.6" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: 1/27/2021 Drilling End Date: 1/27/2021

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.125 | 100 | 850 |

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

| | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| Annular Seal Data: | 0 | 100 | PORTLAND CEMENT 14 Bags/Sacks |

Seal Method: Pressure

Sealed By: Driller

Distance to Property Line (ft.): 100+

Distance to Septic Field or other
concentrated contamination (ft.): 100+

Distance to Septic Tank (ft.): 75+

Method of Verification: OWNER

Surface Completion: Surface Sleeve Installed

Surface Completion by Driller

Water Level: 514 ft. below land surface on 2021-01-27 Measurement Method: Electric Line

Packers: Burlap at 100 ft.
BURLAP & PLASTIC at 120 ft.
BURLAP & PLASTIC at 500 ft.
BURLAP & PLASTIC at 600 ft.
BURLAP & PLASTIC at 730 ft.
BURLAP & PLASTIC at 750 ft.

Type of Pump: Submersible

Well Tests: Jetted Yield: 40 GPM

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|---------------|
| 750 - 850 | LOWER TRINITY |

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.****2520 Hwy. 290 West
Dripping Springs, TX 78620**Driller Name: **MARTIN DALE LINGLE**License Number: **54813**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------|
| 0 | 2 | ROCK |
| 2 | 15 | CALICHE |
| 15 | 17 | BLUE LIMESTONE |
| 17 | 23 | BROWN LIMESTONE |
| 23 | 48 | GRAY LIMESTONE |
| 48 | 51 | BROWN LIMESTONE |
| 51 | 370 | GRAY LIMESTONE |
| 370 | 400 | TAN LIMESTONE |
| 400 | 430 | GRAY LIMESTONE |
| 430 | 570 | TAN/BROWN LIMESTONE |
| 570 | 590 | GRAY LIMESTONE |
| 590 | 630 | GRAY CLAY |
| 630 | 650 | GRAY/TAN LIMESTONE |
| 650 | 670 | GRAY/TAN LIMESTONE |
| 670 | 690 | RED SANDSTONE SAND |
| 690 | 710 | RED SANDSTONE SAND |
| 710 | 730 | RED SANDSTONE SAND |
| 730 | 750 | BROWN SANDSTONE SAND |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-----------------------|-------------------|-----------|-----------|--------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 2 | 750 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | SDR17 | 750 | 850 |

| | | |
|-----|-----|---------------------------------|
| 750 | 770 | BROWN/RED LIMESTONE W/GRAVEL |
| 770 | 790 | BROWN/RED SAND |
| 790 | 810 | CONGLOMERATE |
| 810 | 830 | CONGLOMERATE |
| 830 | 850 | RED SANDSTONE W/CLAY |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #588849

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Adan & Misty Arredondo | Owner Well #: | No Data |
| Address: | 11120 Shady Hollow Dr. Austin, TX 78748 | Grid #: | 58-49-1 |
| Well Location: | 11201 Southwest Oaks Austin, TX 78737 | Latitude: | 30° 12' 59" N |
| Well County: | Travis | Longitude: | 097° 58' 17" W |
| | | Elevation: | 1138 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **10/22/2021** Drilling End Date: **10/22/2021**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.125 | 100 | 890 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | Portland 12 Bags/Sacks |

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **Well drilled first**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **567.8 ft. below land surface, and 50 GPM** Measurement Method: **Electric Line**
artesian flow on **2021-11-05**

Packers: **Burlap at 100 ft.**
Burlap/Plastic at 120 ft.
Burlap/Plastic at 300 ft.
Burlap/Plastic at 600 ft.
Burlap/Plastic at 750 ft.
Burlap/Plastic at 790 ft.

Type of Pump: **Submersible**

Pump Depth (ft.): **740**

Well Tests: **Jetted** **Yield: 50 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|---------------|
| 790 - 890 | Lower Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.**

**2520 Hwy. 290 West
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------|
| 0 | 15 | Caliche |
| 15 | 16 | Blue |
| 16 | 95 | Gray |
| 95 | 405 | Gray Tan |
| 405 | 650 | Tan |
| 650 | 710 | Gray w/ Clay |
| 710 | 730 | Gray |
| 730 | 750 | Brown Tan |
| 750 | 770 | Red Brown Gray |
| 770 | 790 | Brown Sand |
| 790 | 810 | Gray Tan Brown Red |
| 810 | 830 | Gray Tan Brown Red |
| 830 | 850 | Brown Sand Stone |
| 850 | 870 | Red Brown |
| 870 | 890 | Red w/ Clay |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-----------------------|-------------------|-----------|-----------|--------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 2 | 790 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | SDR17 | 790 | 890 |

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #597906

Owner: **McCraw Oil, Inc.** Owner Well #: **MW-8**
Address: **2207 North Center Street** Grid #: **58-49-1**
Bonham, TX 75418
Well Location: **12009 US-290** Latitude: **30° 12' 39.44" N**
Austin, TX 78737 Longitude: **097° 58' 04.96" W**
Well County: **Travis** Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225794

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **2/11/2022**

Drilling End Date: **2/11/2022**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 22 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 22 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal Tony Elmendorf** License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Report Amended on 2/24/2022 by Request #35919

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 0.5 | gravel and black clay (fill) |
| 0.5 | 1.5 | black silty clay, moist |
| 1.5 | 4 | tan & buff Glen Rose marl, moist (solid flight auger drill cuttings started in this interval) |
| 4 | 17.5 | tan & light brown Glen Rose limestone turning buff with water saturation between 7.5' - 10' deep (possibly deeper) |
| 17.5 | 22 | tan & buff Glen Rose marl (dry to moist) |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-------------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #597914

Owner: **McCraw Oil, Inc.** Owner Well #: **MW-9**
Address: **2207 North Center Street** Grid #: **58-49-1**
Bonham, TX 75418
Well Location: **12009 US-290** Latitude: **30° 12' 38.42" N**
Austin, TX 78737 Longitude: **097° 58' 02.65" W**
Well County: **Travis** Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #225796

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **2/11/2022**

Drilling End Date: **2/11/2022**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 6 | 0 | 22 |

Drilling Method: **SFA**

Borehole Completion: **Filter Packed**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 3 | 22 | Sand | 12/20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 2 | Concrete 0.58 Bags/Sacks |
| | 2 | 3 | Bentonite 0.23 Bags/Sacks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Partners, LP**
4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E. Neal**

License Number: **4868**

Apprentice Name: **Tony Elmendorf**

Comments: **No Data**

Report Amended on 2/24/2022 by Request #35920

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 1 | black silty clay, moist |
| 1 | 4 | light brown silt, moist to wet (weathered Glen Rose limestone) |
| 4 | 8 | tan to buff Glen Rose Limestone, moist to wet (solid flight auger drill cuttings) |
| 8 | 10 | light gray shaley seam, heavily water saturated |
| 10 | 22 | light gray turning to tan & buff Glen Rose limestone, harder with depth, dry to moist, groundwater seeping in from 8 - 10' |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-------------------|-------------------|-----------|-----------|--------------|
| 2 | Top Cap (Locking) | New Plastic (PVC) | 40 | | |
| 2 | Bottom Cap | New Plastic (PVC) | 40 | | |
| 2 | Riser | New Plastic (PVC) | 40 | 0 | 5 |
| 2 | Screen | New Plastic (PVC) | 40 0.010 | 5 | 20 |

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Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #612782

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Rick Nelson | Owner Well #: | No Data |
| Address: | 15 Long Creek Rd Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 15 Long Creek Rd Austin, TX 78737 | Latitude: | 30° 12' 53" N |
| Well County: | Hays | Longitude: | 097° 59' 00" W |
| | | Elevation: | 1085 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **6/9/2022**

Drilling End Date: **6/9/2022**

| | | | |
|-----------|-----------------------|------------------------|---------------------------|
| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
| Borehole: | 9 | 0 | 100 |
| | 6.125 | 100 | 850 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | | | |
|--------------------|------------------------|---------------------------|---|
| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
| Annular Seal Data: | 0 | 100 | Cement 12 Bags/Sacks |

Seal Method: **Pressure**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap at 100 ft.
Burlap/Plastic at 120 ft.
Burlap/Plastic at 300 ft.
Burlap/Plastic at 500 ft.
Burlap/Plastic at 600 ft.
Burlap/Plastic at 740 ft.**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 30 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|---------------|
| 740 - 840 | Lower Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.**

**2520 Hwy. 290 West
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------|
| 0 | 1 | Rock |
| 1 | 14 | Caliche |
| 14 | 16 | Blue |
| 16 | 25 | Gray |
| 25 | 330 | Gray & Tan |
| 330 | 580 | Tan |
| 580 | 630 | Gray w/ Clay |
| 630 | 690 | Gray & Tan |
| 690 | 770 | Red Brown & Tan |
| 770 | 840 | Conglomerate |
| 840 | 850 | Gray w/ Clay |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|-----------------------|-------------------|-----------|-----------|--------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 2 | 740 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | SDR17 | 740 | 840 |
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 840 | 850 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #655481

| | | | |
|----------------|--|---------------|---------------------------------|
| Owner: | Randall Porter | Owner Well #: | 58491CF |
| Address: | 464 Counts Estates DR. Dripping Springs, TX 78620 | Grid #: | 58-49-1 |
| Well Location: | 11701 Fitzhugh RD. Austin, TX 78736 | Latitude: | 30° 13' 32" N |
| Well County: | Travis | Longitude: | 097° 58' 21" W |
| | | Elevation: | 1123 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/1/2023** Drilling End Date: **12/1/2023**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 9 | 0 | 100 |
| | 6.13 | 100 | 890 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 100 | Cement 14 Bags/Sacks |

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **Well drilled first**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **610 ft. below land surface on 2023-12-01**

Packers: **Burlap at 100 ft.
Burlap/Plastic at 120 ft.
Burlap/Plastic at 500 ft.
Burlap/Plastic at 600 ft.
Burlap/Plastic at 700 ft.
Burlap/Plastic at 790 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **740**

Well Tests: **Jetted Yield: 20 GPM**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|----------------------|
| 790 - 890 | Lower Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.**

**2520 Hwy. 290 West
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|---|
| 0 | 1 | Top Soil |
| 1 | 12 | Caliche |
| 12 | 53 | Gray w/ Clay |
| 53 | 205 | Gray |
| 205 | 270 | Gray-Tan |
| 270 | 450 | Gray |
| 450 | 600 | Tan |
| 600 | 620 | Gray |
| 620 | 650 | Hammid |
| 650 | 670 | Gray Tan |
| 670 | 700 | Gray & Red Clay |
| 700 | 720 | Gray Tan |
| 720 | 790 | Gray Tan Red |
| 790 | 885 | Tan Brown Sand Stone W/ Sand |
| 885 | 890 | Rock Brown Clay |

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|----------------------|----------------------------------|------------------------------|------------------|------------------|-------------------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 0 | 790 |
| 4.5 | Perforated or Slotted | New Plastic (PVC) | SDR17 | 790 | 890 |

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STATE OF TEXAS WELL REPORT for Tracking #655862

| | | | |
|----------------|---|---------------|--------------------------|
| Owner: | Rachel & Peter Linden | Owner Well #: | No Data |
| Address: | 6 Long Creek Road Austin, TX 78737 | Grid #: | 58-49-1 |
| Well Location: | 6 Long Creek Road Austin, TX 78737 | Latitude: | 30° 12' 56.77" N |
| Well County: | Hays | Longitude: | 097° 59' 05.39" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **11/17/2023** Drilling End Date: **11/17/2023**

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 8.75 | 0 | 100 |
| | 6.25 | 100 | 910 |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

| | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| Annular Seal Data: | -1 | 100 | 10 cement, 4 Benseal Bags/Sacks |

Seal Method: **Pressure Tremie**

Distance to Property Line (ft.): **30**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **+100**

Distance to Septic Tank (ft.): **+100**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **558 ft. below land surface on 2023-11-17** Measurement Method: **Sonic/Radar**

Packers: **Burlap & PVC 750', 730'**
Burlap & Rubber 100'

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 15-20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|-----------------|
| 558 - 910 | Hosston Trinity |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc**
PO BOX 673
Dripping Springs, TX 78620

Driller Name: **James Benoit** License Number: **4064**

Comments: **Drilled for Wiley Water Well Service. Hays Trinity Groundwater District Permit**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-------------------------|
| 0 | 3 | topsoil |
| 3 | 10 | tan clay & lime |
| 10 | 435 | blue lime |
| 435 | 505 | tan limestone |
| 505 | 555 | gray limestone |
| 555 | 605 | gray lime & shale |
| 605 | 710 | gray white limestone |
| 710 | 740 | red clay |
| 740 | 790 | red sandstone |
| 790 | 850 | tan white limestone |
| 850 | 890 | multi color limestone |
| 890 | 910 | yellow limestone & clay |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|--------|-------------------|-------------|-----------|--------------|
| 4.5 | Blank | New Plastic (PVC) | SDR17 | -3 | 830 |
| 4.5 | Screen | New Plastic (PVC) | SDR17 0.020 | 830 | 890 |
| 4.5 | Blank | New Plastic (PVC) | SDR17 | 890 | 910 |

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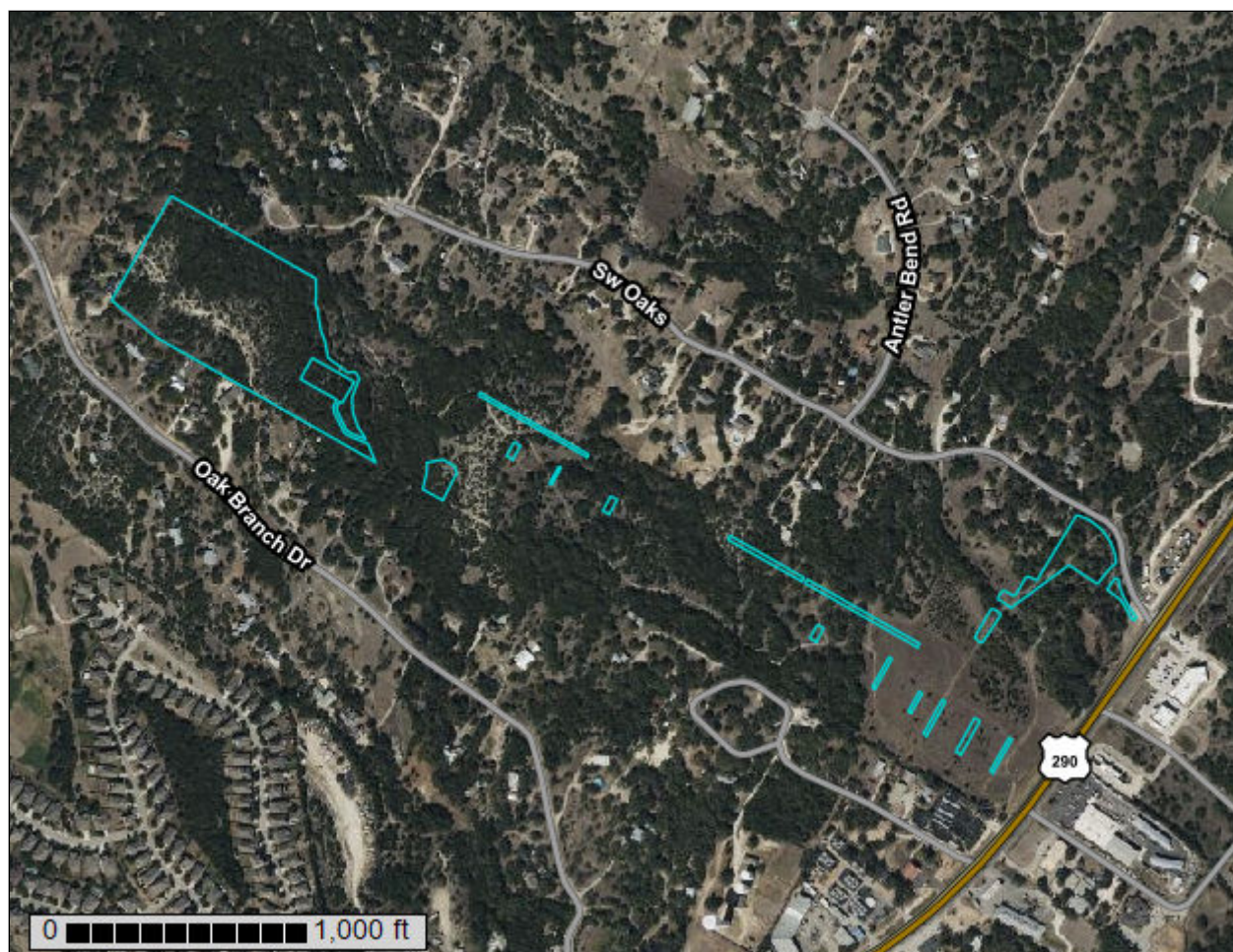
United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Comal and Hays Counties, Texas, and Travis County, Texas



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

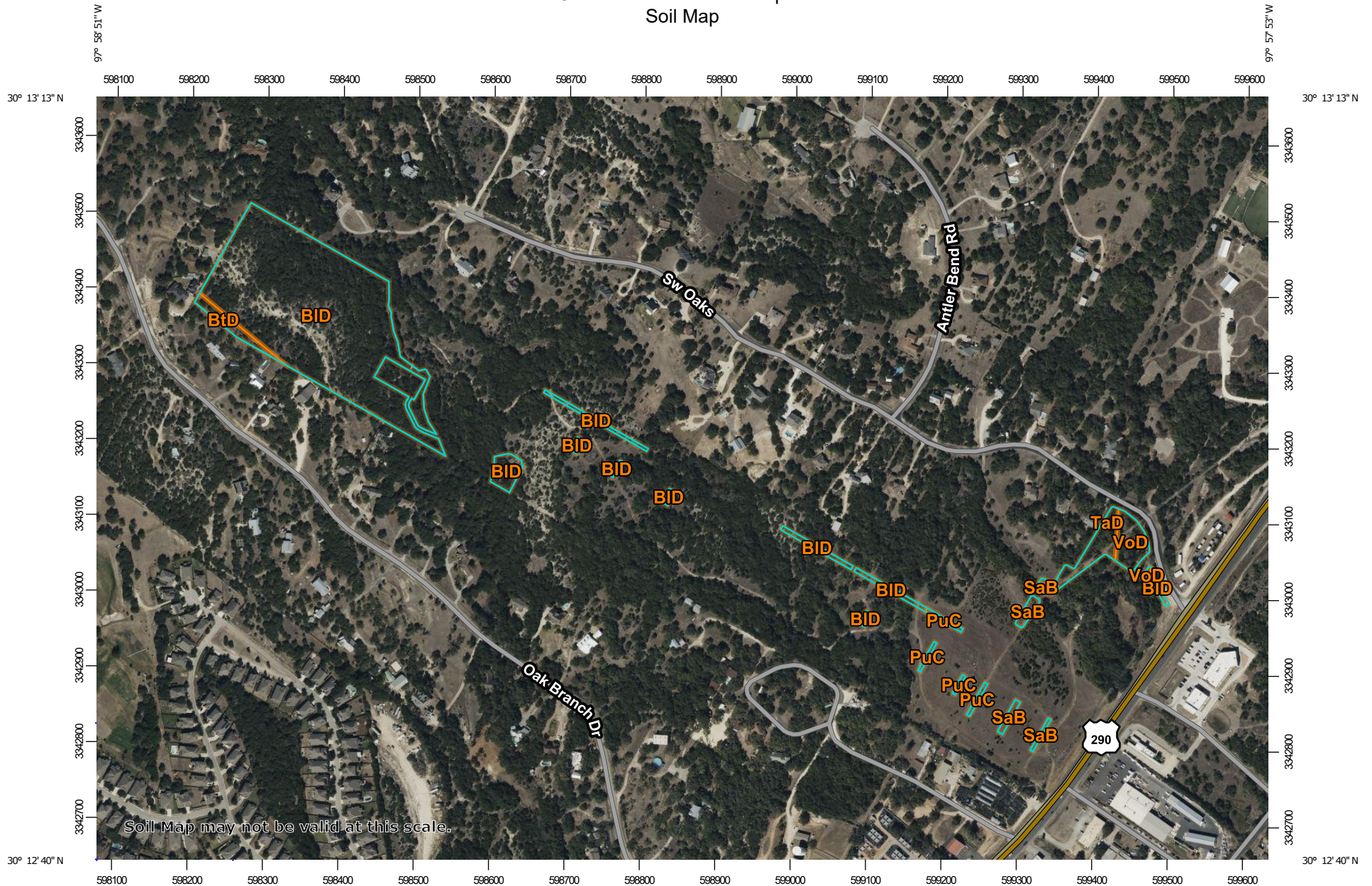
Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

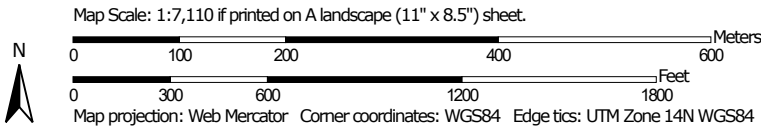
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map




Soil Map may not be valid at this scale.




Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout


 Borrow Pit

 Clay Spot


 Closed Depression

 Gravel Pit


 Gravelly Spot


 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at scales ranging from 1:20,000 to 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Comal and Hays Counties, Texas

Survey Area Data: Version 21, Aug 30, 2024

Soil Survey Area: Travis County, Texas

Survey Area Data: Version 26, Aug 30, 2024

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

MAP LEGEND

MAP INFORMATION

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---------------------------------------|--|--------------|----------------|
| BtD | Brackett-Rock outcrop-Comfort complex, 1 to 8 percent slopes | 0.4 | 2.6% |
| Subtotals for Soil Survey Area | | 0.4 | 2.6% |
| Totals for Area of Interest | | 14.2 | 100.0% |

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---------------------------------------|---|--------------|----------------|
| BID | Brackett-Rock outcrop complex, 1 to 12 percent slopes | 11.9 | 84.1% |
| PuC | Purves clay, 1 to 5 percent slopes | 0.2 | 1.5% |
| SaB | San Saba clay, 1 to 2 percent slopes | 0.3 | 2.1% |
| TaD | Eckrant very stony clay, 5 to 18 percent slopes | 0.7 | 5.2% |
| VoD | Volente silty clay loam, 1 to 8 percent slopes | 0.6 | 4.6% |
| Subtotals for Soil Survey Area | | 13.8 | 97.4% |
| Totals for Area of Interest | | 14.2 | 100.0% |

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different

management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Comal and Hays Counties, Texas

BtD—Brackett-Rock outcrop-Comfort complex, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2ylv1
Elevation: 800 to 2,000 feet
Mean annual precipitation: 33 to 37 inches
Mean annual air temperature: 65 to 69 degrees F
Frost-free period: 220 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Brackett and similar soils: 50 percent
Rock outcrop: 20 percent
Comfort and similar soils: 15 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Brackett

Setting

Landform: Ridges
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

A - 0 to 6 inches: paragravelly clay loam
Bk - 6 to 14 inches: gravelly clay loam
Cr - 14 to 60 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.06 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 1.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: D
Ecological site: R081CY355TX - Adobe 29-35 PZ
Hydric soil rating: No

Description of Rock Outcrop

Setting

Landform: Ridges

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Limestone

Typical profile

R - 0 to 48 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: 0 to 2 inches to lithic bedrock

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.06 to 1.98 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: D

Hydric soil rating: No

Description of Comfort

Setting

Landform: Ridges

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Residuum weathered from limestone

Typical profile

A - 0 to 6 inches: very stony clay

Bt - 6 to 13 inches: extremely stony clay

R - 13 to 40 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 0.6 inches)

Custom Soil Resource Report

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: R081CY360TX - Low Stony Hill 29-35 PZ
Hydric soil rating: No

Minor Components

Doss

Percent of map unit: 5 percent
Landform: Hillslopes
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R081CY574TX - Shallow 29-35 PZ
Hydric soil rating: No

Bolar

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R081CY357TX - Clay Loam 29-35 PZ
Hydric soil rating: No

Purves

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R081CY574TX - Shallow 29-35 PZ
Hydric soil rating: No

Travis County, Texas

BID—Brackett-Rock outcrop complex, 1 to 12 percent slopes

Map Unit Setting

National map unit symbol: 2yltz
Elevation: 820 to 1,330 feet
Mean annual precipitation: 33 to 37 inches
Mean annual air temperature: 65 to 69 degrees F
Frost-free period: 220 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Brackett and similar soils: 68 percent
Rock outcrop: 20 percent
Minor components: 12 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Brackett

Setting

Landform: Ridges
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

A - 0 to 6 inches: gravelly clay loam
Bw - 6 to 18 inches: clay loam
Cr - 18 to 60 inches: bedrock

Properties and qualities

Slope: 1 to 12 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.06 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: D
Ecological site: R081CY355TX - Adobe 29-35 PZ
Hydric soil rating: No

Description of Rock Outcrop

Setting

Landform: Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Limestone

Typical profile

R - 0 to 48 inches: bedrock

Properties and qualities

Slope: 3 to 12 percent
Depth to restrictive feature: 0 to 2 inches to lithic bedrock
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.06 to 1.98 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

San saba

Percent of map unit: 4 percent
Landform: Ridges
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R081CY356TX - Blackland 29-35 PZ
Hydric soil rating: No

Volente

Percent of map unit: 4 percent
Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R081CY357TX - Clay Loam 29-35 PZ
Hydric soil rating: No

Eckrant

Percent of map unit: 4 percent
Landform: Ridges
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R081CY363TX - Steep Rocky 29-35 PZ
Hydric soil rating: No

PuC—Purves clay, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2ylvf
Elevation: 400 to 1,800 feet
Mean annual precipitation: 33 to 37 inches
Mean annual air temperature: 65 to 69 degrees F
Frost-free period: 220 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Purves and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Purves

Setting

Landform: Ridges
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from limestone

Typical profile

Ak1 - 0 to 10 inches: clay
Ak2 - 10 to 16 inches: clay
Bk - 16 to 19 inches: clay
R - 19 to 40 inches: bedrock

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 8 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4s

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Hydrologic Soil Group: D
Ecological site: R081CY574TX - Shallow 29-35 PZ
Hydric soil rating: No

Minor Components

Eckrant

Percent of map unit: 4 percent
Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081CY360TX - Low Stony Hill 29-35 PZ
Hydric soil rating: No

Brackett

Percent of map unit: 3 percent
Landform: Ridges
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R081CY355TX - Adobe 29-35 PZ
Hydric soil rating: No

Doss

Percent of map unit: 2 percent
Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081CY574TX - Shallow 29-35 PZ
Hydric soil rating: No

Rock outcrop

Percent of map unit: 1 percent
Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

SaB—San Saba clay, 1 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2ylv0
Elevation: 800 to 1,300 feet
Mean annual precipitation: 30 to 35 inches

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Mean annual air temperature: 65 to 69 degrees F

Frost-free period: 220 to 260 days

Farmland classification: All areas are prime farmland

Map Unit Composition

San saba and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Saba

Setting

Landform: Ridges

Landform position (two-dimensional): Footslope, toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Concave

Across-slope shape: Linear

Parent material: Calcareous clayey slope alluvium and/or residuum weathered from limestone and/or marl over hard residuum weathered from limestone

Typical profile

A - 0 to 22 inches: clay

Bss - 22 to 38 inches: clay

R - 38 to 80 inches: bedrock

Properties and qualities

Slope: 1 to 2 percent

Depth to restrictive feature: 24 to 40 inches to lithic bedrock

Drainage class: Moderately well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: D

Ecological site: R081CY358TX - Deep Redland 29-35 PZ

Hydric soil rating: No

Minor Components

Volente

Percent of map unit: 3 percent

Landform: Ridges

Landform position (two-dimensional): Footslope, toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Concave

Across-slope shape: Linear

Ecological site: R081CY357TX - Clay Loam 29-35 PZ

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Hydric soil rating: No

Speck

Percent of map unit: 2 percent

Landform: Ridges

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R081CY361TX - Redland 29-35 PZ

Hydric soil rating: No

TaD—Eckrant very stony clay, 5 to 18 percent slopes

Map Unit Setting

National map unit symbol: 2xmt6

Elevation: 450 to 1,350 feet

Mean annual precipitation: 30 to 35 inches

Mean annual air temperature: 66 to 69 degrees F

Frost-free period: 220 to 270 days

Farmland classification: Not prime farmland

Map Unit Composition

Eckrant and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eckrant

Setting

Landform: Ridges

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from limestone

Typical profile

A1 - 0 to 5 inches: very stony clay

A2 - 5 to 8 inches: extremely flaggy clay

R - 8 to 30 inches: bedrock

Properties and qualities

Slope: 5 to 18 percent

Depth to restrictive feature: 6 to 14 inches to lithic bedrock

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

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Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Very low (about 0.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R081CY360TX - Low Stony Hill 29-35 PZ

Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 5 percent

Landform: Ridges

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Hydric soil rating: No

Brackett

Percent of map unit: 5 percent

Landform: Ridges

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R081CY355TX - Adobe 29-35 PZ

Hydric soil rating: No

VoD—Volente silty clay loam, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2ynhg

Elevation: 400 to 1,400 feet

Mean annual precipitation: 32 to 35 inches

Mean annual air temperature: 65 to 69 degrees F

Frost-free period: 230 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Volente and similar soils: 75 percent

Minor components: 25 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Volente

Setting

Landform: Ridges
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Calcareous clayey colluvium and/or alluvium derived from limestone

Typical profile

A - 0 to 22 inches: silty clay loam
BA - 22 to 36 inches: silty clay
Bw - 36 to 46 inches: silty clay
Ck - 46 to 59 inches: clay loam

Properties and qualities

Slope: 1 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 10.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: R081CY357TX - Clay Loam 29-35 PZ
Hydric soil rating: No

Minor Components

Lewisville

Percent of map unit: 15 percent
Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope, tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R081CY357TX - Clay Loam 29-35 PZ
Hydric soil rating: No

Brackett

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear

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Across-slope shape: Convex
Ecological site: R081CY355TX - Adobe 29-35 PZ
Hydric soil rating: No

Eckrant

Percent of map unit: 2 percent
Landform: Ridges
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R081CY360TX - Low Stony Hill 29-35 PZ
Hydric soil rating: No

Orif

Percent of map unit: 2 percent
Landform: Drainageways
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: R081CY561TX - Loamy Bottomland 29-35 PZ
Hydric soil rating: No

Rock outcrop

Percent of map unit: 1 percent
Landform: Ridges
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

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