Energy Development Company, LLC
1234 Rock Road
Pasadena, TX
77501

February 5, 2014

Texas Commission on Environmental Quality
Emissions Banking and Trading Program (MC 206)
PO Box 13087
Austin, Texas 78711-3087

Re: 2013 MECT Annual Compliance Report
Energy Development Company, LLC (CN123456789)
Lone Star #1 Compressor Station (RN123456789)

Emissions Banking and Trading Program,

Please find the enclosed 2013 MECT Annual Compliance Report (Form ECT-1), trade summary report, and supporting documentation (emission calculations, manufacturer specification sheet, and emission test summaries).

Note that FIN ENG-3 was shut down on January 1, 2013 and this engine will no longer be included in MECT Annual Compliance Reports for this site. Also, the status for FIN ENG-4 did not change in the 2013 control period. This engine has been idle since February 12, 2012. We will continue to represent FIN ENG-4 as idle until its status changes.

If you have any questions or require additional information, please contact me at (555) 555-0100.

Sincerely,

John Smith

John Smith
Environmental Engineer
Energy Development Company, LLC

Texas Commission on Environmental Quality MECT Annual Compliance Report (Form ECT-1)		
Company Information		
Company Name: Energy Development Company, LLC		
Customer Reference Number: CN123456789		
Company Contact Name: John Smith	Title: Environmental Engineer	
Mailing Address: 1234 Rock Road		
City: Pasadena	State: TX	ZIP Code: 77501
Telephone: 555-555-0100	E-Mail: jsmith123456@edc.com	
Site Information		
Site Name: Lone Star #1 Compressor Station		
Street Address: 1234 Pebble Creek Road		
City: Pasadena	County: Harris	ZIP Code: 77501
Regulated Entity Reference Number: RN123456789		
Air Account Number (if applicable): N/A		
Portfolio Number: P1234		
Technical Contact Information		
Technical Contact Name: John Smith		
Title: Environmental Engineer		
Mailing Address: 1234 Rock Road		
City: Pasadena	State: TX	ZIP Code: 77501
Telephone: 555-555-0100	E-Mail: jsmith123456@edc.com	

Texas Commission on Environmental Quality
MECT Annual Compliance Report (Form ECT-1)

Annual Facility Emissions

Offset	EPN	FIN	FIN Name	Level of Activity	Level of Activity Monitoring Protocol	Emission Factor	Emission Factor Monitoring or Testing Protocol	Annual Emissions (tons)
☐	ENG-1	ENG-1	Cat. G3306NA	12,915.79 hp-hr/yr	117.340(a)(1)(B)	0.174 g/hp-hr	117.340(o)	0.01
☐	ENG-1	ENG-1	Cat. G3306NA	40,969.36 hp-hr/yr	117.340(a)(1)(B)	0.3 g/hp-hr	117.340(o)	0.01
☐	ENG-2	ENG-2	Wauk. L7044GSI	7,641,941 hp-hr/yr	117.340(a)(2)(D)	0.02 g/hp-hr	117.340(o)	0.17
☐	ENG-3	ENG-3	Cat. 3616TALE	0.0 Select Units	Select Protocol	0.0 Select Units	Select Protocol	0.00
☐	ENG-4	ENG-4	Wauk. L7044GS	0.0 Select Units	Select Protocol	0.0 Select Units	Select Protocol	0.00
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	
☐				Select Units	Select Protocol	Select Units	Select Protocol	

Texas Commission on Environmental Quality
MECT Annual Compliance Report (Form ECT-1)

Facility Status Update

EPN	FIN	FIN Name	Facility Type	Authorization	Facility Status	Effective Date
ENG-3	ENG-3	Cat. 3616TALE	IC Engine	Permit No. 12345	Shutdown	1/1/2013
ENG-4	ENG-4	Wauk. L7044GSI	IC Engine	Permit No. 12345	Idle	2/12/2012
			Select Type		Select Status	
			Select Type		Select Status	
			Select Type		Select Status	
			Select Type		Select Status	
			Select Type		Select Status	
			Select Type		Select Status	
			Select Type		Select Status	
			Select Type		Select Status	

Texas Commission on Environmental Quality
MECT Annual Compliance Report (Form ECT-1)

Trade Summary

Trade Type	Allowances Transferred In	Allowances Transferred Out
Current		
Future		
Stream		
Vintage	0.1	

Summary of Allowances Used for Offset Requirements

ECT-4O Submitted	☐
Total Allowances for 1:1 Offset	
Total Emissions from Facilities Using Allowances for 1:1 Offset	

Account Summary

Control Period	2013
Control Period Balance	0.1
Greater of the Total Allowances for 1:1 Offset or Total Emissions from Facilities Using Allowances for 1:1 Offset	N/A
Total Emissions from All Other Facilities	0.2
Subtotal	-0.1
Vintage Allowances Used	0.1
Remaining Account Balance	0.0

Authorized Signature

The signature below confirms my authorization to make this submission on behalf of the owners and operators of the facility or facilities included in this application. I certify that I have knowledge of the facts in this application and attachments and that these facts are true, accurate, and complete to the best of my knowledge and belief. I further state that I have read and understand Texas Water Code (TWC) §§7.177–7.183, which define criminal offenses for certain violations, including intentionally or knowingly making or causing to be made false material statements or representations in this application, and TWC §7.187, pertaining to criminal penalties.

Name: John Smith	Title: Environmental Engineer
John Smith	*2/5/2014*
Original Signature Required	Date

FIN ENG-1
Supporting Documentation

TEXAS ENVIRONMENTAL TESTING, LLC
File Number 12-345A

DESCRIPTION OF PROCESS

The facility is a typical oil and gas production facility that flows natural hydrocarbons from deep wells, which may then flow to an in line heater, and then separators. The oil, high pressure gas, and water are separated in the high pressure separators. The high pressure natural gas may be dehydrated, treated and sold by pipeline or used as fuel. The high pressure separator oil is piped to intermediate and low pressure separators, where the low pressure gas, oil, and saltwater are further separated. The low pressure natural gas liberated from the intermediate and low pressure separators, scrubbers, etc. is routed to the compressor for processing with the high pressure gas mentioned above. The high pressure gas used as fuel may be dehydrated and scrubbed prior to ignition.

ENGINE INFORMATION

Site	Engine Model Number	Engine ID	Engine Serial Number	Engine HP	Engine Type	Year of Manufacture
Lone Star #1	G3306NA	FIN ENG-1	1234567A	145	4SRB	1/12/11

SUMMARY OF RESULTS
Lone Star #1 Compressor Station
Engine Exhaust (S/N 1234567A)

Data	Run Number 1	Run Number 2	Run Number 3
Date	06/25/11	06/25/11	06/25/11
Time	1105-1205	1236-1336	1406-1506
%O2 - % Volume	0.0	0.0	0.0
Unit Heat Input - million Btu/hr	0.7011	0.6946	0.6829
Engine Load[2] - %	85.73	84.59	85.01
Oxides of Nitrogen Emissions - ppmvd	<0.01	<0.01	<0.01
Oxides of Nitrogen Emissions - g/hp-hr	<0.01	<0.01	<0.01
Carbon Monoxide Emissions - ppmvd	179.51	177.82	194.20
Carbon Monoxide Emissions - ppmvd[1]	153.74	152.30	166.32
Carbon Monoxide Emissions - g/hp-hr	0.25	0.24	0.27

[1]Corrected to 3% oxygen
[2]Engine operated at max possible load during test

BENDY TESTING ASSOCIATES
PO Box 4321
Round Rock, Texas 78664

Table 1: Summary of Results

Site: Lone Star #1 Compressor Station
Facility Owner: Energy Development Company, LLC
Location: Pasadena, Texas
Unit Make: Cat. G3306NA, FIN ENG-1
Unit Serial Number: 1234567A
Test Personnel: R. Smith

Test Data	**Run # 1**	**Run # 2**	**Run # 3**	**Averages**
Date	4/1/13	4/1/13	4/1/13	
Start Time	10:30	12:45	14:00	
Stop Time	11:30	13:45	15:00	
Oxygen (O_2% Dry)	0.62	1.02	0.99	
Engine Data	**Run # 1**	**Run # 2**	**Run # 3**	**Averages**
Rated Horsepower	145	145	145	
Engine Speed (rpm)	1485	1485	1486	
Ignition Timing (°BTDC)	25	25	25	
Intake Manifold Vacuum (in. Hg)	6	6	6	
Exhaust Temperature (°F)	1065	1067	1069	
Control AFR Setting	0.804	0.804	0.804	
Horsepower	120	120	120	
Compressor Data	**Run # 1**	**Run # 2**	**Run # 3**	**Averages**
Suction Pressure (psig)	48	48	49	
1st Discharge Pressure (psig)	150	150	155	
2nd Discharge Pressure (psig)	390	390	400	
Discharge Pressure (psig)	930	930	930	
Fuel & Exhaust Data	**Run # 1**	**Run # 2**	**Run # 3**	**Averages**
O_2 F-factor (dscf/MMBtu)	8710	8710	8710	
Fuel Heating Value (HHV Btu/scf)	1020	1020	1020	
T29/Std. Fuel Consumption Rate (Btu/hp-hr)	9500	9500	9500	
Ambient Conditions	**Run # 1**	**Run # 2**	**Run # 3**	**Averages**
Temperature (°F): Dry bulb	66.3	65.9	63.6	
Temperature (°F) Dry Bulb	60.1	59.7	57.3	
Atmospheric Pressure ("Hg)	30.09	30.10	30.11	
Humidity (lb water/lb air)	0.0094	0.0093	0.0084	
Humidity (% vol)	1.5	1.5	1.4	
Measured Exhaust Outlet Concentrations	**Run # 1**	**Run # 2**	**Run # 3**	**Averages**
NO_X (ppmv)	74.5	71.1	42.5	62.7
CO (ppmv)	153.4	97.9	269.7	173.7
O_2 (ppmv)	0.2	0.2	0.2	0.2
Emission Rates	**Run # 1**	**Run # 2**	**Run # 3**	**Averages**
NO_X (g/bhp-hr)	0.3	0.3	0.2	0.3
CO (g/bhp-hr)	0.4	0.3	0.7	0.5

TECHNICAL DATA

G3306 Gas Petroleum Engine (0.5% O_2 Rating) — 1800 rpm

		DM5053-07	DM5202-04
Aspiration		Naturally Aspirated	Turbocharged/Aftercooled
Engine Power			
@ 100% Load	bkW (bhp)	108 (145)	151 (203)
@ 75% Load	bkW (bhp)	81 (109)	113 (152)
Engine Speed	rpm	1800	1800
Max Altitude @ Rated Torque and 38°C (100°F)	m (ft)	0	0
Speed Turndown @ Max Altitude, Rated Torque, and 38°C (100°F)	%	44	33
AC Temperature	°C (°F)	N/A	54 (130)
Emissions*			
NOx	g/bkW-hr (g/bhp-hr)	18.08 (13.48)	22.22 (16.57)
CO	g/bkW-hr (g/bhp-hr)	18.05 (13.46)	22.22 (16.57)
NMHC	g/bkW-hr (g/bhp-hr)	130 (0.33)	0.24 (0.18)
Exhaust O_2	% dry	0.5	0.5
CO_2	g/bkW-hr (g/bhp-hr)	651 (485)	685 (571)
VOC**	g/bkW-hr (g/bhp-hr)	0.3 (0.22)	0.16 (0.12)
Fuel Consumption***			
@ 100% Load	MJ/bkW-hr (Btu/bhp-hr)	11 (7775)	11.46 (8098)
@ 75% Load	MJ/bkW-hr (Btu/bhp-hr)	11.77 (8318)	11.95 (8444)
Heat Balance			
Heat Rejection to Jacket Water			
@ 100% Load	bkW (Btu/min)	106.27 (6049)	158.9 (9045)
@ 75% Load	bkW (Btu/min)	91.99 (5236)	132.4 (7534)
Heat Rejection from Aftercooler			
@ 100% Load	bkW (Btu/min)	N/A	9.05 (515)
@ 75% Load	bkW (Btu/min)	N/A	3.65 (208)
Heat Rejection to Exhaust			
@ 100% Load (LHV to 77° F / 25° C)	bkW (Btu/mn)	84.98 (4837)	117.62 (6695)
@ 75% Load (LHV to 77°) (LHV to 77° F / 25° C)	bkW (Btu/mn)	66.01 (3757)	90.39 (5145)
Exhaust System			
Exhaust Gas Flow Rate			
@ 100% Load	m^3/min (cfm)	19.2 (678)	27.47 (970)
@ 75% Load	m^3/min (cfm)	15.06 (532)	21.38 (755)
Exhaust Stack Temperature			
@ 100% Load	°C (°F)	593.9 (1101)	573.3 (1064)
@ 75% Load	°C (°F)	575 (1067)	554.4 (1030)
Intake System			
Air Inlet Flow Rate			
@ 100% Load	m^3/min (scfm)	5.89 (208)	8.64 (305)
@ 75% Load	m^3/min (scfm)	4.73 (167)	6.88 (243)
Gas Pressure	kPag (psig)	10.3-69 (1.5-10)	82.7-172.4 (12-24.9)

*at 100% load and speed, all values are listed as not to exceed

**Volatile organic compounds as defined in U.S. EPA 40 CFR 60, subpart JJJJ

***ISO 3046/1

Energy Development Company, LLC
Lone Star #1 Compressor Station
2013 Emission Calculations for FIN ENG-1 (Cat. G3306NA)

Fuel usage was determined via a fuel flow meter in accordance with 30 TAC §117.340(a)(1)(B). The metered data in standard cubic feet (scf) was converted to horsepower-hour using the gross heating value of the fuel (based on fuel analysis) and the engine specific fuel consumption factor (at 100% load and speed). The engine was tested on 6/25/11 and then retested on 4/1/13 in accordance with §117.8140(a). In accordance with §117.340(p)(2)(C), the NO_X emission rate determined via retesting was used to calculate emissions from the date of retesting forward. NO_X emissions for the period before the retest were calculated using the previously determined emission factor. Annual emissions were calculated using conversion factors of 2000 lb/ton and 453.6 g/lb.

TABLE 1: FUEL USAGE

MONTH	FUEL USAGE (SCF)
JAN	39281.20
FEB	27984.60
MAR	33154.50
APR	30002.80
MAY	29658.70
JUN	40658.80
JUL	35698.20
AUG	20899.70
SEP	29365.80
OCT	45698.50
NOV	47896.20
DEC	38658.10
TOTAL	**418957.10**

TABLE 2: JAN-MAR EMISSIONS

JAN-MAR FUEL USAGE (SCF)	100420.30
HEATING VALUE (BTU/SCF)	1000
FUEL CON. FACTOR (BTU/BHP-HR)	7775
LEVEL OF ACTIVITY (BHP-HR)	12915.79
EMISSION FACTOR (G/HP-HR)	0.174
JAN-MAR EMISSIONS (TONS)	**0.002477236**

TABLE 3: APR-DEC EMISSIONS

APR-DEC FUEL USAGE (SCF)	318536.80
HEATING VALUE (BTU/SCF)	1000
FUEL CON. FACTOR (BTU/BHP-HR)	7775
LEVEL OF ACTIVITY (BHP-HR)	40969.36334
EMISSION FACTOR (G/HP-HR)	0.3
APR-DEC EMISSIONS (TONS)	**0.01354807**

FIN ENG-2
Supporting Documentation

EMISSION TESTING, INC.

1234 TEXAS ROAD • PO BOX 12345 • AUSTIN, TEXAS 78753

SECTION 1.0 - SUMMARY

Emission Testing, Inc. (ETI), conducted an emission compliance test on a Waukesha VHP Series Four L7044GSI ESM Compressor Engine at the Lone Star #1 Compressor Station located in Pasadena, Texas on November 20, 2012. The engine operates under permit by rule registration No. 12345. The unit is permitted under 40 CFR Part 60 NSPS Subpart JJJJ. The objective of the test was to determine Nitrogen Oxides (NO_X), Carbon Monoxide (CO), Volatile Organic Compounds (VOCs) and Oxygen (O_2) emissions from the engine for purposes of determining emissions compliance. This program was coordinated through Mr. John Smith, an Environmental Engineer of Energy Development Company, LLC, located in Pasadena, Texas.

Fuel fired during testing was natural gas and the unit was operating at full load with the daily fuel average at ~230 mcf/pd and 950 rpm. The testing consisted of conducting three sixty-minute test runs measuring the stack gas concentrations of NO_X, CO, VOCs and O_2. Reference Methods 3A, 7E, 10, and 25A were used to measure the concentrations of O_2, NO_X, CO and VOCs respectively. The emission compliance was determined based on the average of three test runs on the engine and shows the engine passed. A summary of the compliance test emissions results are presented in Table 1.

ETI was responsible for the testing procedures outlined above. The following sections delineate the test methods, equipment description and test results. The appendices present the field "raw" data, equipment calibrations, data calculations, process data, equipment specifications, calibration gas certifications, chain of custody, resumes and personnel information.

EMISSION TESTING, INC.
PO Box 12345
Austin, Texas 78753

Table 1
Lone Star #1 Compressor Station
FIN ENG-2 (Wauk. L7044GSI)
Pasadena, Texas

Data	Test 1	Test 2	Test 3	Average
Date	11/20/12	11/20/12	11/20/12	
Time	10:00-11:00 am	12:15-1:15 pm	1:30-2:30 pm	
Oxygen (O_2% Dry)	0.62	1.02	0.99	0.88
Barometric Pressure (in Hg)	30.03	30.03	30.03	30.03
Dry Gas Meter Correction Factor	0.9938	0.9938	0.9938	0.99
Average Delta H (in H_2O)	0.75	0.75	0.75	0.75
Average Meter Temp (°F)	71.92	77.17	77.00	75.36
Meter Volume Uncorrected (ft^3)	30.59	31.12	35.13	32.28
Meter Volume at Standard Conditions (DSCF)	30.33	30.55	34.50	31.79
Moisture Measured by weight (g)	147.00	148.90	140.30	145.50
Moisture (%)	18.60	18.69	16.09	17.79
Engine Horse Power	1100.00	1100.00	1100.00	1100.00
Engine RPM	950.00	950.00	950.00	950.00
Fuel Flow (mcf/pd)	230.00	230.00	230.00	230.00
Fuel Flow (scfm)	159.72	159.72	159.72	159.72
Dry Standard Cubic Feet per Minute (DSCFM)	1505.63	1535.47	1533.56	1524.88
Carbon Dioxide (CO_2%)	6.50	6.50	6.50	6.50
Nitrogen Oxides (NO_X) ppmv	3.99	3.95	2.69	3.54
NOx lb/mmbtu	0.0044	0.0043	0.0029	0.0039
NOx lb/hr	0.04	0.04	0.03	0.04
NOx ppmv@15% O_2	1.20	1.17	0.80	1.05
NOx g/bhp-br	0.02	0.02	0.01	0.02
Carbon Monoxide (CO) ppmv	1.76	1.96	2.68	2.13
CO lb/mmbtu	0.0011	0.0013	0.0018	0.0014
CO lb/hr	0.01	0.01	0.02	0.01
CO ppmv@15% O_2	0.51	0.58	0.80	0.63
CO g/bhp-br	0.00	0.01	0.01	0.01
Volatile Organic Compounds (VOC) ppmv wet	72.34	81.47	86.60	80.14
VOC ppmv dry	88.87	100.19	103.20	97.42
VOC lb/mmbtu	0.0913	0.4050	0.1080	0.1014
VOC lb/hr	0.92	1.06	1.09	1.02
VOC ppmv @15% O_2	25.86	29.73	30.59	28.73
VOC g/bhp-br	0.38	0.44	0.45	0.42

Energy Development Company, LLC
Lone Star #1 Compressor Station
2013 Daily Hours of Operations and Average Horsepower for FIN ENG-2 (L7044GSI)

The horsepower-hour is based on continuous monitoring of the horsepower (hp) and hours of operation in accordance with 30 TAC §117.340(a)(2)(D). A data acquisition system (DAS) tracks the engine runtime and records the hp every 15 min based on continuous measuring of torque and rotational speed. The DAS determines hp-hr for each day (based on the average hp for that day and the hours of operation) and sums these values to determine the annual hp-hr.

JAN				FEB				MAR				APR				MAY				JUN			
DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR
1/1/2013	873	20	17460	2/1/2013	949	21	19929	3/1/2013	1324	18	23832	4/1/2013	1086	23	24978	5/1/2013	917	17	15589	6/1/2013	918	16	14688
1/2/2013	1196	18	21528	2/2/2013	1281	19	24339	3/2/2013	1104	20	22080	4/2/2013	1149	17	19533	5/2/2013	1008	20	20160	6/2/2013	1167	16	18672
1/3/2013	1142	19	21698	2/3/2013	912	22	20064	3/3/2013	1225	22	26950	4/3/2013	1001	17	17017	5/3/2013	1214	17	20638	6/3/2013	855	15	12825
1/4/2013	1236	17	21012	2/4/2013	1350	16	21600	3/4/2013	1032	15	15480	4/4/2013	1174	17	19958	5/4/2013	1113	20	22260	6/4/2013	1245	16	19920
1/5/2013	1085	15	16275	2/5/2013	1323	17	22491	3/5/2013	1084	23	24932	4/5/2013	861	23	19803	5/5/2013	918	22	20196	6/5/2013	861	19	16359
1/6/2013	1109	18	19962	2/6/2013	883	19	16777	3/6/2013	1287	19	24453	4/6/2013	1302	22	28644	5/6/2013	975	18	17550	6/6/2013	1214	18	21852
1/7/2013	1043	22	22946	2/7/2013	859	21	18039	3/7/2013	1239	22	27258	4/7/2013	927	17	15759	5/7/2013	1056	16	16896	6/7/2013	1021	17	17357
1/8/2013	1318	21	27678	2/8/2013	1203	21	25263	3/8/2013	1042	15	15630	4/8/2013	1154	17	19618	5/8/2013	1273	22	28006	6/8/2013	903	22	19866
1/9/2013	1048	21	22008	2/9/2013	963	20	19260	3/9/2013	864	22	19008	4/9/2013	1039	22	22858	5/9/2013	1205	18	21690	6/9/2013	869	23	19987
1/10/2013	1234	20	24680	2/10/2013	1217	22	26774	3/10/2013	1089	23	25047	4/10/2013	1346	17	22882	5/10/2013	1050	20	21000	6/10/2013	1237	15	18555
1/11/2013	983	16	15728	2/11/2013	1199	18	21582	3/11/2013	941	22	20702	4/11/2013	1274	23	29302	5/11/2013	979	18	17622	6/11/2013	1255	18	22590
1/12/2013	902	19	17138	2/12/2013	869	20	17380	3/12/2013	911	23	20953	4/12/2013	1302	16	20832	5/12/2013	1124	17	19108	6/12/2013	894	19	16986
1/13/2013	983	18	17694	2/13/2013	1271	15	19065	3/13/2013	982	15	14730	4/13/2013	983	19	18677	5/13/2013	1219	23	28037	6/13/2013	1267	18	22806
1/14/2013	1277	16	20432	2/14/2013	1338	23	30774	3/14/2013	1128	20	22560	4/14/2013	1029	19	19551	5/14/2013	1237	15	18555	6/14/2013	1223	17	20791
1/15/2013	1106	15	16590	2/15/2013	864	19	16416	3/15/2013	1035	18	18630	4/15/2013	1065	19	20235	5/15/2013	1349	23	31027	6/15/2013	874	16	13984
1/16/2013	877	20	17540	2/16/2013	1230	20	24600	3/16/2013	1226	19	23294	4/16/2013	1336	16	21376	5/16/2013	942	17	16014	6/16/2013	869	19	16511
1/17/2013	866	15	12990	2/17/2013	978	20	19560	3/17/2013	1217	23	27991	4/17/2013	1322	19	25118	5/17/2013	1185	20	23700	6/17/2013	949	15	14235
1/18/2013	1135	15	17025	2/18/2013	1127	16	18032	3/18/2013	992	20	19840	4/18/2013	907	15	13605	5/18/2013	1279	20	25580	6/18/2013	1317	23	30291
1/19/2013	1317	18	23706	2/19/2013	1042	21	21882	3/19/2013	890	23	20470	4/19/2013	1252	22	27544	5/19/2013	1086	17	18462	6/19/2013	1317	22	28974
1/20/2013	1228	22	27016	2/20/2013	1257	18	22626	3/20/2013	1138	22	25036	4/20/2013	980	21	20580	5/20/2013	1071	22	23562	6/20/2013	1168	16	18688
1/21/2013	1082	19	20558	2/21/2013	949	16	15184	3/21/2013	976	20	19520	4/21/2013	1180	16	18880	5/21/2013	1296	15	19440	6/21/2013	1148	23	26404
1/22/2013	1078	18	19404	2/22/2013	982	19	18658	3/22/2013	1251	15	18765	4/22/2013	1144	15	17160	5/22/2013	850	20	17000	6/22/2013	1070	16	17120
1/23/2013	1034	20	20680	2/23/2013	1066	15	15990	3/23/2013	1278	23	29394	4/23/2013	941	22	20702	5/23/2013	976	17	16592	6/23/2013	1128	19	21432
1/24/2013	868	17	14756	2/24/2013	969	23	22287	3/24/2013	1289	17	21913	4/24/2013	854	22	18788	5/24/2013	914	21	19194	6/24/2013	997	20	19940
1/25/2013	1275	23	29325	2/25/2013	1125	16	18000	3/25/2013	1134	20	22680	4/25/2013	1228	23	28244	5/25/2013	1252	20	25040	6/25/2013	923	21	19383
1/26/2013	983	15	14745	2/26/2013	1302	20	26040	3/26/2013	1056	16	16896	4/26/2013	1026	21	21546	5/26/2013	933	22	20526	6/26/2013	916	23	21068
1/27/2013	1015	21	21315	2/27/2013	1134	18	20412	3/27/2013	1122	17	19074	4/27/2013	1148	20	22960	5/27/2013	944	16	15104	6/27/2013	1263	18	22734
1/28/2013	1326	17	22542	2/28/2013	1268	20	25360	3/28/2013	973	16	15568	4/28/2013	920	15	13800	5/28/2013	1128	19	21432	6/28/2013	1280	19	24320
1/29/2013	945	23	21735					3/29/2013	986	20	19720	4/29/2013	957	19	18183	5/29/2013	866	23	19918	6/29/2013	1268	20	25360
1/30/2013	1286	21	27006					3/30/2013	1163	20	23260	4/30/2013	943	22	20746	5/30/2013	895	21	18795	6/30/2013	1338	19	25422
1/31/2013	880	22	19360					3/31/2013	1163	18	20934					5/31/2013	1272	16	20352				
		TOTAL	**632532**			**TOTAL**	**588384**			**TOTAL**	**666600**			**TOTAL**	**628879**			**TOTAL**	**639045**			**TOTAL**	**609120**

JUL				AUG				SEP				OCT				NOV				DEC			
DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR	DAY	AVG. HP	HRS	HP-HR
7/1/2013	1013	20	20260	8/1/2013	1022	21	21462	9/1/2013	1170	23	26910	10/1/2013	1150	23	26450	11/1/2013	1252	18	22536	12/1/2013	1165	15	17475
7/2/2013	996	23	22908	8/2/2013	964	17	16388	9/2/2013	1061	18	19098	10/2/2013	1263	18	22734	11/2/2013	1338	15	20070	12/2/2013	1187	19	22553
7/3/2013	967	21	20307	8/3/2013	1210	19	22990	9/3/2013	940	22	20680	10/3/2013	1238	16	19808	11/3/2013	1132	21	23772	12/3/2013	1292	17	21964
7/4/2013	945	20	18900	8/4/2013	1227	20	24540	9/4/2013	930	17	15810	10/4/2013	1347	23	30981	11/4/2013	1078	15	16170	12/4/2013	1099	19	20881
7/5/2013	1139	19	21641	8/5/2013	1158	20	23160	9/5/2013	919	23	21137	10/5/2013	1262	15	18930	11/5/2013	1181	21	24801	12/5/2013	1319	18	23742
7/6/2013	913	22	20086	8/6/2013	975	17	16575	9/6/2013	870	21	18270	10/6/2013	1070	15	16050	11/6/2013	1048	16	16768	12/6/2013	933	17	15861
7/7/2013	1163	16	18608	8/7/2013	1172	15	17580	9/7/2013	1317	22	28974	10/7/2013	1141	23	26243	11/7/2013	1243	19	23617	12/7/2013	1272	18	22896
7/8/2013	917	19	17423	8/8/2013	1159	16	18544	9/8/2013	1257	19	23883	10/8/2013	1007	20	20140	11/8/2013	1100	20	22000	12/8/2013	1328	20	26560
7/9/2013	999	23	22977	8/9/2013	950	22	20900	9/9/2013	1279	15	19185	10/9/2013	1013	21	21273	11/9/2013	1311	20	26220	12/9/2013	1148	21	24108
7/10/2013	1134	17	19278	8/10/2013	1078	17	18326	9/10/2013	1247	23	28681	10/10/2013	1119	19	21261	11/10/2013	1189	17	20213	12/10/2013	920	18	16560
7/11/2013	850	21	17850	8/11/2013	1039	20	20780	9/11/2013	1178	17	20026	10/11/2013	1177	22	25894	11/11/2013	1317	23	30291	12/11/2013	1203	21	25263
7/12/2013	1057	15	15855	8/12/2013	909	15	13635	9/12/2013	1312	17	22304	10/12/2013	988	22	21736	11/12/2013	1318	23	30314	12/12/2013	1027	17	17459
7/13/2013	1253	22	27566	8/13/2013	1302	15	19530	9/13/2013	1192	16	19072	10/13/2013	1257	19	23883	11/13/2013	919	23	21137	12/13/2013	930	16	14880
7/14/2013	1082	19	20558	8/14/2013	943	15	14145	9/14/2013	1165	16	18640	10/14/2013	1220	19	23180	11/14/2013	1291	22	28402	12/14/2013	950	15	14250
7/15/2013	1076	18	19368	8/15/2013	1206	20	24120	9/15/2013	1007	17	17119	10/15/2013	939	22	20658	11/15/2013	1065	16	17040	12/15/2013	1001	21	21021
7/16/2013	1173	15	17595	8/16/2013	1310	17	22270	9/16/2013	889	15	13335	10/16/2013	862	23	19826	11/16/2013	1170	20	23400	12/16/2013	854	15	12810
7/17/2013	940	20	18800	8/17/2013	1099	21	23079	9/17/2013	986	18	17748	10/17/2013	1248	23	28704	11/17/2013	994	18	17892	12/17/2013	1016	19	19304
7/18/2013	907	16	14512	8/18/2013	1012	18	18216	9/18/2013	1089	16	17424	10/18/2013	1184	17	20128	11/18/2013	955	20	19100	12/18/2013	956	20	19120
7/19/2013	1188	16	19008	8/19/2013	1087	20	21740	9/19/2013	1065	20	21300	10/19/2013	1209	19	22971	11/19/2013	1296	15	19440	12/19/2013	938	20	18760
7/20/2013	961	17	16337	8/20/2013	1040	23	23920	9/20/2013	1199	16	19184	10/20/2013	1214	22	26708	11/20/2013	1247	21	26187	12/20/2013	1129	22	24838
7/21/2013	1127	17	19159	8/21/2013	1132	20	22640	9/21/2013	914	21	19194	10/21/2013	977	22	21494	11/21/2013	942	17	16014	12/21/2013	908	22	19976
7/22/2013	1291	16	20656	8/22/2013	1313	20	26260	9/22/2013	1024	22	22528	10/22/2013	1247	20	24940	11/22/2013	1172	22	25784	12/22/2013	1195	17	20315
7/23/2013	1203	20	24060	8/23/2013	970	22	21340	9/23/2013	952	23	21896	10/23/2013	997	18	17946	11/23/2013	1343	20	26860	12/23/2013	1015	22	22330
7/24/2013	1013	20	20260	8/24/2013	1119	15	16785	9/24/2013	1112	17	18904	10/24/2013	1179	19	22401	11/24/2013	1060	17	18020	12/24/2013	1284	17	21828
7/25/2013	970	19	18430	8/25/2013	1289	20	25780	9/25/2013	897	16	14352	10/25/2013	1198	15	17970	11/25/2013	1060	18	19080	12/25/2013	1042	15	15630
7/26/2013	1008	19	19152	8/26/2013	1140	22	25080	9/26/2013	1273	17	21641	10/26/2013	1154	21	24234	11/26/2013	929	18	16722	12/26/2013	867	18	15606
7/27/2013	1255	15	18825	8/27/2013	1343	23	30889	9/27/2013	1244	20	24880	10/27/2013	1254	17	21318	11/27/2013	1085	21	22785	12/27/2013	954	23	21942
7/28/2013	1060	23	24380	8/28/2013	1102	21	23142	9/28/2013	906	21	19026	10/28/2013	881	20	17620	11/28/2013	1322	23	30406	12/28/2013	1024	22	22528
7/29/2013	1297	18	23346	8/29/2013	1167	16	18672	9/29/2013	1264	16	20224	10/29/2013	1014	20	20280	11/29/2013	924	23	21252	12/29/2013	1075	18	19350
7/30/2013	1088	21	22848	8/30/2013	1264	17	21488	9/30/2013	1345	19	25555	10/30/2013	1220	19	23180	11/30/2013	1221	18	21978	12/30/2013	1049	22	23078
7/31/2013	968	22	21296	8/31/2013	1148	16	18368					10/31/2013	1176	22	25872					12/31/2013	1102	18	19836
		TOTAL	**622249**			**TOTAL**	**652344**			**TOTAL**	**616980**			**TOTAL**	**694813**			**TOTAL**	**668271**			**TOTAL**	**622724**

Energy Development Company, LLC
Lone Star #1 Compressor Station
2013 Emission Calculations for FIN ENG-2 (L7044GSI)

The horsepower-hour is based on continuous monitoring of the horsepower (hp) and hours of operation in accordance with 30 TAC §117.340(a)(2)(D). A data acquisition system (DAS) tracks the engine runtime and records the hp every 15 min based on continuous measuring of torque and rotational speed. The DAS determines hp-hr for each day (based on the average hp for that day and the hours of operation) and sums these values to determine the annual hp-hr. The emission factor is based on testing conducted on 11/20/12 in accordance with §117.340(o). Annual emissions were calculated using conversion factors of 2000 lb/ton and 453.6 g/lb.

TABLE 1: FUEL USAGE

MONTH	HP-HR
JAN	632532
FEB	588384
MAR	666600
APR	628879
MAY	639045
JUN	609120
JUL	622249
AUG	652344
SEP	616980
OCT	694813
NOV	668271
DEC	622724
TOTAL	7641941

TABLE 2: ANNUAL EMISSIONS

LEVEL OF ACTIVITY (HP-HR)	7641941
EMISSION FACTOR (G/HP-HR)	0.02
ANNUAL EMISSIONS (TONS)	0.16847313