AP - 080

REPORTS

01/30/2008

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company – Pride Energy	Contact – Matt Pride
Address – P O Box 701950 Tulsa, OK 74170	Telephone No. – 918-524-9200
Facility Name – State QE 13 #1	Facility Type – Drilling Pit

Surface Owner - State	Mineral Owner - State	API # 30-025-29634

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	13	12S	34E					Lea

Latitude 33-16-22.9N **Longitude** 103-27-55.2W

NATURE OF RELEASE

Type of Release – Drilling Pit Fluids	Volume of Release ?	Volume Recovered – None
Source of Release – Drilling Pit	Date and Hour of Occurrence ?	Date and Hour of Discovery-1-28-08 11AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Hobbs NMOCD Chris Williams 1-28-08 Sante Fe NMOCD Glenn von Gonten 1-28-08	
By Whom? Logan Anderson – Elke Environmental	Date and Hour 1-28-08 with an email.	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume Impacting the Watercourse. ?	

If a Watercourse was Impacted, Describe Fully. Drilling mud solidified onsite as per C-144 approved through Hobbs NMOCD. After mud was removed a vertical delineation was performed with a trackhoe then an air rotary drill. The soil samples did not meet NMOCD standards and a monitor well was set on the SE corner of the drilling pit. A water sample was analyzed and did not meet water quality standards.

Describe Cause of Problem and Remedial Action Taken. Monitor well was set and analyzed for TPH and Chloride and did not meet water quality standards.

Describe Area Affected and Cleanup Action Taken. A plat map, field analytical and lab analysis are included with this C-141.

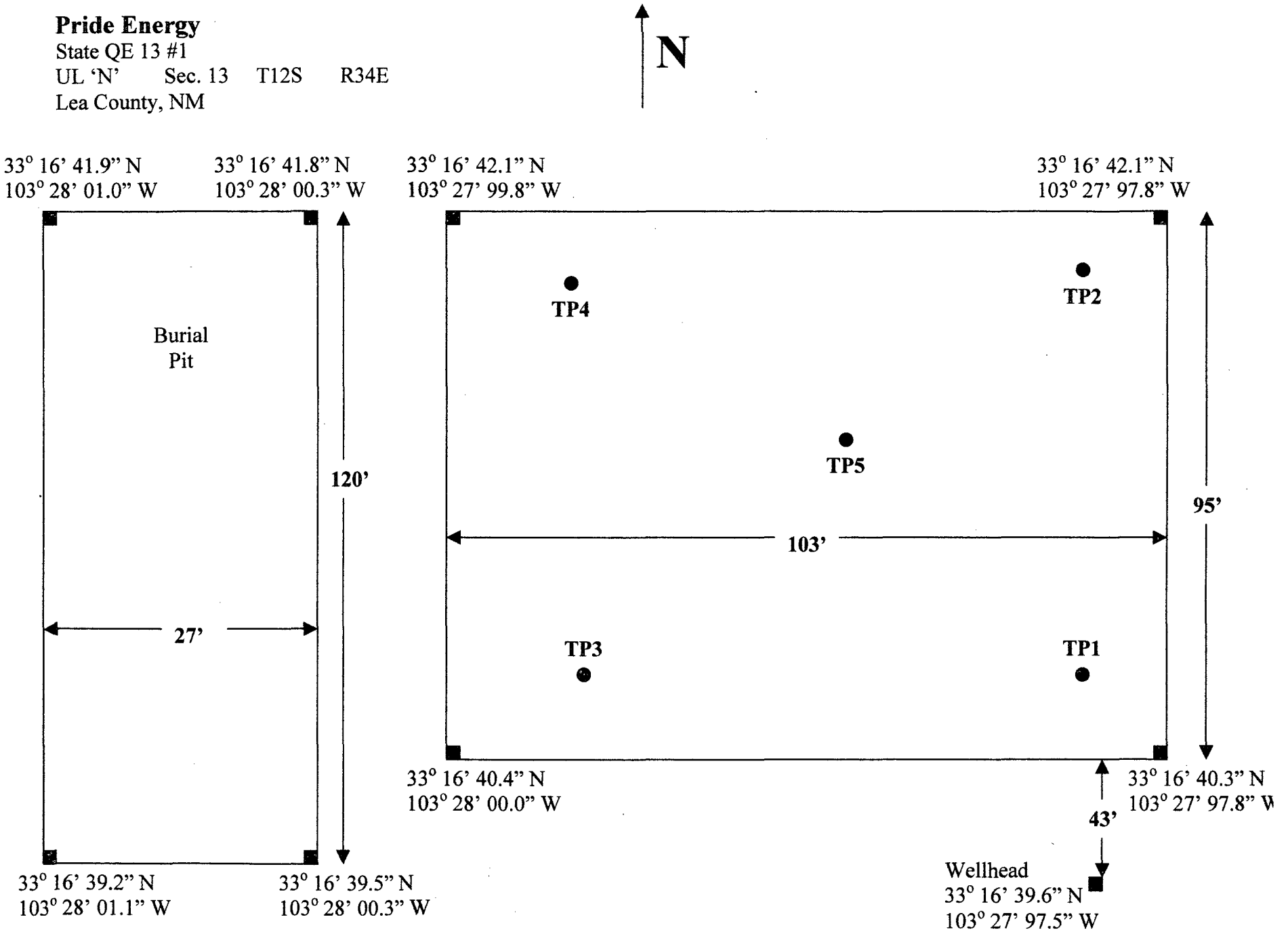
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Logan Anderson	Approved by District Supervisor:	
Title: Project Manager – Elke Environmental	Approval Date:	Expiration Date:
E-mail Address: la_elkeenv@yahoo.com	Conditions of Approval:	Attached ☐
Date: 1-30-08 Phone: 432-366-0043		

* Attach Additional Sheets If Necessary

RECEIVED
2008 FEB 4 PM 12 32

Pride Energy
State QE 13 #1
UL 'N' Sec. 13 T12S R34E
Lea County, NM



Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Pride Energy **Analyst** Jason Jessup

Site State QE 13 #1

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP1	12-31-07	8'		1,327		33° 16' 40.7" N 103° 27' 98.2" W
TP1	1-2-08	10'		3,212		33° 16' 40.7" N 103° 27' 98.2" W
TP1	1-2-08	12'		5,208		33° 16' 40.7" N 103° 27' 98.2" W
TP1	1-2-08	14'		4,735		33° 16' 40.7" N 103° 27' 98.2" W
TP1	1-2-08	16'		2,092		33° 16' 40.7" N 103° 27' 98.2" W
TP1	1-2-08	18'		3,426		33° 16' 40.7" N 103° 27' 98.2" W
TP1	1-3-08	20'		1,025		33° 16' 40.7" N 103° 27' 98.2" W
TP1	1-3-08	25'		146		33° 16' 40.7" N 103° 27' 98.2" W
TP1	1-3-08	30'		152	5.7	33° 16' 40.7" N 103° 27' 98.2" W
TP2	12-31-07	8'		6,636		33° 16' 41.7" N 103° 27' 98.2" W
TP2	1-2-08	10'		3,809		33° 16' 41.7" N 103° 27' 98.2" W
TP2	1-2-08	12'		2,188		33° 16' 41.7" N 103° 27' 98.2" W
TP2	1-2-08	14'		1,440		33° 16' 41.7" N 103° 27' 98.2" W
TP2	1-2-08	16'		1,183		33° 16' 41.7" N 103° 27' 98.2" W
TP2	1-2-08	18'		763		33° 16' 41.7" N 103° 27' 98.2" W
TP2	1-3-08	20'		265	13.1	33° 16' 41.7" N 103° 27' 98.2" W
TP3	12-31-07	8'		5,444		33° 16' 40.8" N 103° 27' 99.6" W
TP3	1-3-08	12'		3,738		33° 16' 40.8" N 103° 27' 99.6" W

Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Pride Energy **Analyst** Jason Jessup

Site State QE 13 #1

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP3	1-3-08	15'		1,747		33° 16' 40.8" N 103° 27' 99.6" W
TP3	1-3-08	20'		1,097		33° 16' 40.8" N 103° 27' 99.6" W
TP3	1-3-08	25'		1,026		33° 16' 40.8" N 103° 27' 99.6" W
TP3	1-3-08	30'		1,200		33° 16' 40.8" N 103° 27' 99.6" W
TP3	1-3-08	35'		238	9.9	33° 16' 40.8" N 103° 27' 99.6" W
TP4	12-31-07	8'		3,925		33° 16' 41.8" N 103° 27' 99.6" W
TP4	1-3-08	12'		5,998		33° 16' 41.8" N 103° 27' 99.6" W
TP4	1-3-08	14'		4,772		33° 16' 41.8" N 103° 27' 99.6" W
TP4	1-3-08	17'		2,930		33° 16' 41.8" N 103° 27' 99.6" W
TP4	1-3-08	20'		5,659		33° 16' 41.8" N 103° 27' 99.6" W
TP4	1-3-08	25'		2,791		33° 16' 41.8" N 103° 27' 99.6" W
TP4	1-3-08	30'		2,279		33° 16' 41.8" N 103° 27' 99.6" W
TP4	1-3-08	35'		579		33° 16' 41.8" N 103° 27' 99.6" W
TP4	1-3-08	36'		295		33° 16' 41.8" N 103° 27' 99.6" W
TP4	1-3-08	37'		224	7.8	33° 16' 41.8" N 103° 27' 99.6" W
TP5	12-31-07	8'		1,848		33° 16' 41.1" N 103° 27' 98.7" W
TP5	1-2-08	10'		2,301		33° 16' 41.1" N 103° 27' 98.7" W
TP5	1-2-08	12'		2,127		33° 16' 41.1" N 103° 27' 98.7" W

Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Pride Energy **Analyst** Jason Jessup

Site State QE 13 #1

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP5	1-2-08	14'		2,639		33° 16' 41.1" N 103° 27' 98.7" W
TP5	1-2-08	16'		4,170		33° 16' 41.1" N 103° 27' 98.7" W
TP5	1-2-08	18'		1,989		33° 16' 41.1" N 103° 27' 98.7" W
TP5	1-3-08	20'		1,026		33° 16' 41.1" N 103° 27' 98.7" W
TP5	1-3-08	25'		168		33° 16' 41.1" N 103° 27' 98.7" W
TP5	1-3-08	30'		87	5.9	33° 16' 41.1" N 103° 27' 98.7" W
Background	1-2-08	Surface		289		

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Monitor Well Report Form

Client Pride Energy **Date** 1-24-08

Site State QE 13 #1

Monitor Well ID	Depth of Water	Total Depth of Well	Feet of Water	Gallons of Water to Purge	Gallons of Water Purged	Time
MW-1	38.5'	44.1'	5.6'	2.7	3	1:03pm

Notes Sampled for TPH 8015M and Chloride

Signature Jason Jessup

Analytical Report 295420

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Pride Energy

10-JAN-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

10-JAN-08

Project Manager: **Logan Anderson**
Elke Environmental, Inc.
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **295420**
Pride Energy
Project Address: State QE 13 #1

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 295420. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 295420 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 295420

Elke Environmental, Inc., Odessa, TX

Pride Energy

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP1@30'	S	Jan-03-08 09:48	30' ft	295420-001
TP2@20'	S	Jan-03-08 11:02	20' ft	295420-002
TP3@35'	S	Jan-03-08 13:28	35' ft	295420-003
TP4@37'	S	Jan-03-08 12:32	37' ft	295420-004
TP5@30'	S	Jan-03-08 13:52	30' ft	295420-005

Certificate of Analysis Summary 295420

Elke Environmental, Inc., Odessa, TX

Project Name: Pride Energy

Project Id:

Contact: Logan Anderson

Project Location: State QE 13 #1

Date Received in Lab: Fri Jan-04-08 02:45 pm

Report Date: 10-JAN-08

Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	295420-001		295420-002		295420-003		295420-004		295420-005	
	Field Id:	TP1@30'		TP2@20'		TP3@35'		TP4@37'		TP5@30'	
	Depth:	30' ft		20' ft		35' ft		37' ft		30' ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-03-08 09:48		Jan-03-08 11:02		Jan-03-08 13:28		Jan-03-08 12:32		Jan-03-08 13:52	
Percent Moisture	***Extracted:***										
	Analyzed:	Jan-07-08 17:30		Jan-07-08 17:30		Jan-07-08 17:30		Jan-07-08 17:30		Jan-07-08 17:30	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.01		6.66		15		15.2		3.24	
TPH by SW8015 Mod	***Extracted:***	Jan-07-08 14:55		Jan-07-08 14:55		Jan-07-08 14:55		Jan-07-08 14:55		Jan-07-08 14:55	
	Analyzed:	Jan-08-08 17:16		Jan-08-08 17:43		Jan-08-08 18:11		Jan-08-08 18:40		Jan-08-08 19:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.8	ND	16.1	ND	17.6	ND	17.7	ND	15.5
C12-C28 Diesel Range Hydrocarbons		ND	15.8	ND	16.1	ND	17.6	ND	17.7	ND	15.5
C28-C35 Oil Range Hydrocarbons		ND	15.8	ND	16.1	ND	17.6	ND	17.7	ND	15.5
Total TPH		ND		ND		ND		ND		ND	
Total Chloride by EPA 325.3	***Extracted:***										
	Analyzed:	Jan-07-08 09:10		Jan-07-08 09:10		Jan-07-08 09:10		Jan-07-08 09:10		Jan-07-08 09:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		149	5.00	234	5.00	128	5.00	170	5.00	42.5	5.00

Brent Barron
Odessa Laboratory Director

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Pride Energy

Work Order #: 295420 **Project ID:**

Lab Batch #: 711871 **Sample:** 295420-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.9	100	91	70-135	
o-Terphenyl	48.5	50.0	97	70-135	

Lab Batch #: 711871 **Sample:** 295420-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	48.9	50.0	98	70-135	

Lab Batch #: 711871 **Sample:** 295420-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.0	100	96	70-135	
o-Terphenyl	46.7	50.0	93	70-135	

Lab Batch #: 711871 **Sample:** 295420-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.7	100	86	70-135	
o-Terphenyl	46.0	50.0	92	70-135	

Lab Batch #: 711871 **Sample:** 295420-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.1	100	94	70-135	
o-Terphenyl	49.6	50.0	99	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Pride Energy

Work Order #: 295420 **Project ID:**

Lab Batch #: 711871 **Sample:** 295420-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.4	100	84	70-135	
o-Terphenyl	44.9	50.0	90	70-135	

Lab Batch #: 711871 **Sample:** 295420-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.1	100	95	70-135	
o-Terphenyl	49.4	50.0	99	70-135	

Lab Batch #: 711871 **Sample:** 503175-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.6	100	88	70-135	
o-Terphenyl	42.3	50.0	85	70-135	

Lab Batch #: 711871 **Sample:** 503175-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.6	100	84	70-135	
o-Terphenyl	45.2	50.0	90	70-135	

Lab Batch #: 711871 **Sample:** 503175-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	48.3	50.0	97	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Pride Energy

Work Order #: 295420 **Project ID:**

Lab Batch #: 711552 **Sample:** 711552-1-BKS **Matrix:** Solid

Date Analyzed: 01/07/2008 **Date Prepared:** 01/07/2008 **Analyst:** IRO

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Total Chloride by EPA 325.3 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	100	93.6	94	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Pride Energy

Work Order #: 295420
Analyst: SHE
Lab Batch ID: 711871
Sample: 503175-1-BKS
Units: mg/kg

Date Prepared: 01/07/2008
Batch #: 1

Project ID:
Date Analyzed: 01/08/2008
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	902	90	1000	1020	102	12	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	826	83	1000	930	93	12	70-135	35	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Pride Energy

Work Order # : 295420 **Project ID:**

Lab Batch ID: 711871 **QC- Sample ID:** 295420-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/08/2008 **Date Prepared:** 01/07/2008 **Analyst:** SHE

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1050	1020	97	1050	1030	98	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1050	948	90	1050	948	90	0	70-135	35	

Lab Batch ID: 711552 **QC- Sample ID:** 295419-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/07/2008 **Date Prepared:** 01/07/2008 **Analyst:** IRO

Reporting Units: mg/kg

Total Chloride by EPA 325.3 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	255	1000	1230	98	1000	1230	98	0	75-125	30	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Pride Energy

Work Order #: 295420

Lab Batch #: 711555 **Project ID:**

Date Analyzed: 01/07/2008 **Date Prepared:** 01/07/2008 **Analyst:** JLG

QC- Sample ID: 295419-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	20.3	19.1	6	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Logan Anderson
Company Name: Elke Environmental
Company Address: P O Box 14167
City/State/Zip: Odessa, TX 79768
Telephone No: 432-366-0043 Fax No: 432-366-0884
Sampler Signature:

Project Name: Pride Energy
Project #:
Project Loc: State QE 13 #1
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES
e-mail: la_elkeenv@yahoo.com

(lab use only)
ORDER #: 29542.0

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater SI=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 802 1/8260D or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
001	TP1e 30'		30'	1-3-08	9:48A		1	X								S	X			X									X
002	TP2e 20'		20'	1-3-08	11:02A		1	X								S	X			X									X
003	TP3e 35'		35'	1-3-08	1:28P		1	X								S	X			X									X
004	TP4e 37'		37'	1-3-08	12:32P		1	X								S	X			X									X
005	TP5e 30'		30'	1-3-08	1:52P		1	X								S	X			X									X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	1-4-08	2:45P			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jan Walker	01/04/08	14:45

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep.?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Enviro.

Date/ Time: 01/04/08 14:45

Lab ID # : 29542.0

Initials: [illegible]

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	1.5 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: ____________ Contacted by: ____________ Date/ Time: ____________

Regarding: ______________________________

Corrective Action Taken:

____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 296506

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Pride Energy

25-JAN-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

25-JAN-08

Project Manager: **Logan Anderson**
Elke Environmental, Inc.
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **296506**
Pride Energy
Project Address: State QE 13 # 1

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 296506. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 296506 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 296506

Elke Environmental, Inc., Odessa, TX

Pride Energy

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW 1	W	Jan-24-08 13:03		296506-001

Certificate of Analysis Summary 296506

Elke Environmental, Inc., Odessa, TX

Project Name: Pride Energy

Project Id:
Contact: Logan Anderson
Project Location: State QE 13 # 1

Date Received in Lab: Thu Jan-24-08 04:35 pm
Report Date: 25-JAN-08
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	296506-001					
	Field Id:	MW 1					
	Depth:						
	Matrix:	WATER					
	Sampled:	Jan-24-08 13:03					
TPH by SW8015 Mod	***Extracted:***	Jan-25-08 11:16					
	Analyzed:	Jan-25-08 13:47					
	Units/RL:	mg/L	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	1.50				
C12-C28 Diesel Range Hydrocarbons		ND	1.50				
C28-C35 Oil Range Hydrocarbons		ND	1.50				
Total TPH		ND					
Total Chloride by EPA 325.3	***Extracted:***						
	Analyzed:	Jan-25-08 10:05					
	Units/RL:	mg/L	RL				
Chloride		1490	5.00				

Brent Barron
Odessa Laboratory Director

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Pride Energy

Work Order #: 296506 **Project ID:**

Lab Batch #: 713031 **Sample:** 296506-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.4	10.0	104	70-135	
o-Terphenyl	6.13	5.00	123	70-135	

Lab Batch #: 713031 **Sample:** 503808-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.8	10.0	108	70-135	
o-Terphenyl	6.22	5.00	124	70-135	

Lab Batch #: 713031 **Sample:** 503808-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.1	10.0	101	70-135	
o-Terphenyl	6.12	5.00	122	70-135	

Lab Batch #: 713031 **Sample:** 503808-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.1	10.0	111	70-135	
o-Terphenyl	6.32	5.00	126	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Pride Energy

Work Order #: 296506 **Project ID:**

Lab Batch #: 712959 **Sample:** 712959-1-BKS **Matrix:** Water

Date Analyzed: 01/25/2008 **Date Prepared:** 01/25/2008 **Analyst:** LATCOR

Reporting Units: mg/L **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Total Chloride by EPA 325.3 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	100	91.5	92	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Pride Energy

Work Order #: 296506

Project ID:

Analyst: SHE **Date Prepared:** 01/25/2008 **Date Analyzed:** 01/25/2008

Lab Batch ID: 713031 **Sample:** 503808-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
C6-C12 Gasoline Range Hydrocarbons	ND	100	87.5	88	100	90.1	90	3	70-135	25	
C12-C28 Diesel Range Hydrocarbons	ND	100	103	103	100	105	105	2	70-135	25	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

ENVIRONMENTAL LAB OF

Form 3 - MS / MSD Recoveries

Project Name: Pride Energy

ACCREDITED IN ACCORDANCE WITH nelac

Work Order # : 296506 **Project ID:**

Lab Batch ID: 712959 **QC- Sample ID:** 296506-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 01/25/2008 **Date Prepared:** 01/25/2008 **Analyst:** LATCOR

Reporting Units: mg/L

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Total Chloride by EPA 325.3 **Analytes**	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**Spiked Sample %R [D]**	**Spike Added [E]**	**Duplicate Spiked Sample Result [F]**	**Spiked Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Chloride	1490	5000	6590	102	5000	6700	104	2	80-120	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Logan Anderson
Company Name: Elke Environmental
Company Address: P O Box 14167
City/State/Zip: Odessa, TX 79768
Telephone No: 432-366-0043 Fax No: 432-366-0884
Sampler Signature: e-mail: la_elkeenv@yahoo.com

Project Name: Pride Energy
Project #:
Project Loc: State QE 13 #1
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 296506

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 (8015M)	TOTAL: TPH: 418.1	TPH: TX 1005	TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.					RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW 1			1-24-08	1:03 pm		1	X								GW	X				X												X	

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Sam Cessup	1-24	4:35			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Lam	1-24-08	4:35

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

250 ml plastic

Temperature Upon Receipt: -1.5 °C

Pet Frozen

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Environmental

Date/ Time: 01-24-08 @ 1638

Lab ID # : 296506

Initials: JMF

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	Yes	No	-1.5 °C	
#2 Shipping container in good condition?	Yes	No	(N/A)	
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present (N/A)	
#4 Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5 Chain of Custody present?	(Yes)	No		
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?	Yes	(No)	* See Below	
#13 Samples properly preserved?	Yes	(No)	* See Below	
#14 Sample bottles intact?	(Yes)	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	(Yes)	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	Yes	(No)	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event