AP - 079

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 X #1	Facility Type – Drilling Pit

Surface Owner - State	Mineral Owner - State	API # 30-025-01838

LOCATION OF RELEASE

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

Latitude 33-17-28.2N **Longitude** 103-27-43.2W

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.

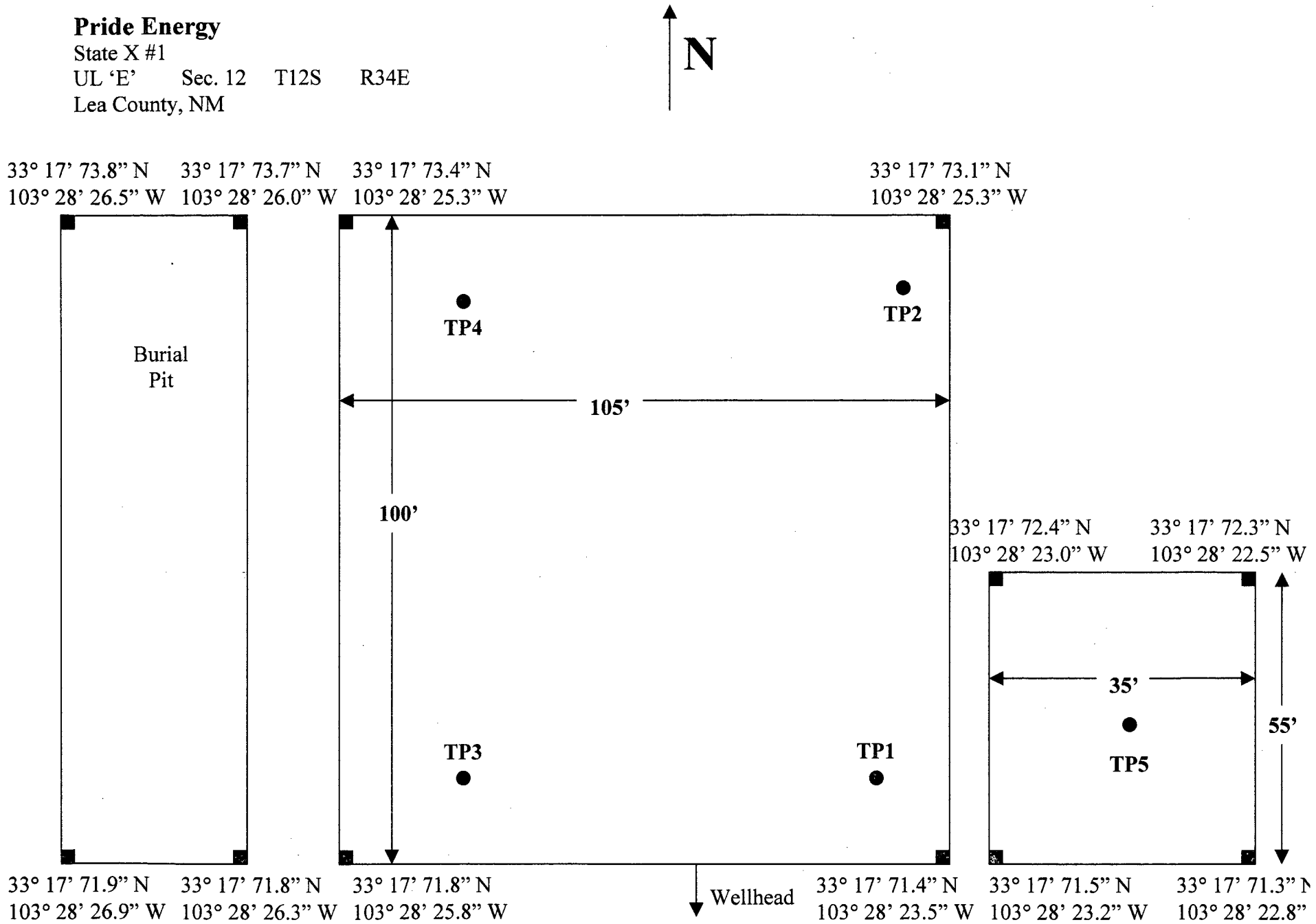
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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 31

Pride Energy
State X #1
UL 'E' Sec. 12 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 X #1

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP1	1-15-08	8'		2,085		33° 17' 71.9" N 103° 28' 23.8" W
TP1	1-15-08	10'		2,059		33° 17' 71.9" N 103° 28' 23.8" W
TP1	1-16-08	12'		657		33° 17' 71.9" N 103° 28' 23.8" W
TP1	1-16-08	14'		457		33° 17' 71.9" N 103° 28' 23.8" W
TP1	1-16-08	16'		269	17.3	33° 17' 71.9" N 103° 28' 23.8" W
TP2	1-15-08	8'		550		33° 17' 72.8" N 103° 28' 23.8" W
TP2	1-15-08	10'		268	19.1	33° 17' 72.8" N 103° 28' 23.8" W
TP3	1-15-08	8'		13,981		33° 17' 72.1" N 103° 28' 25.3" W
TP3	1-15-08	10'		14,778		33° 17' 72.1" N 103° 28' 25.3" W
TP3	1-15-08	12'		10,913		33° 17' 72.1" N 103° 28' 25.3" W
TP3	1-16-08	14'		1,182		33° 17' 72.1" N 103° 28' 25.3" W
TP3	1-16-08	16'		914		33° 17' 72.1" N 103° 28' 25.3" W
TP3	1-16-08	18'		351		33° 17' 72.1" N 103° 28' 25.3" W
TP3	1-16-08	20'		2,383		33° 17' 72.1" N 103° 28' 25.3" W
TP3	1-16-08	22'		177	5.9	33° 17' 72.1" N 103° 28' 25.3" W
TP4	1-15-08	8'		25,010		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-15-08	10'		16,439		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-15-08	12'		12,500		33° 17' 73.0" N 103° 28' 25.2" W

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

Field Analytical Report Form

Client Pride Energy **Analyst** Jason Jessup

Site State X #1

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP4	1-16-08	14'		4,580		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-16-08	16'		2,234		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-16-08	18'		4,116		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-16-08	19'		2,367		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-16-08	20'		5,181		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-16-08	21'		1,947		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-22-08	22'		571		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-22-08	25'		605		33° 17' 73.0" N 103° 28' 25.2" W
TP4	1-22-08	30'		1,132	3.7	33° 17' 73.0" N 103° 28' 25.2" W
TP5	1-15-08	8'		1,006		33° 17' 71.9" N 103° 28' 22.9" W
TP5	1-15-08	10'		1,513		33° 17' 71.9" N 103° 28' 22.9" W
TP5	1-15-08	12'		2,968		33° 17' 71.9" N 103° 28' 22.9" W
TP5	1-16-08	14'		1,895		33° 17' 71.9" N 103° 28' 22.9" W
TP5	1-16-08	16'		1,273		33° 17' 71.9" N 103° 28' 22.9" W
TP5	1-16-08	18'		1,297		33° 17' 71.9" N 103° 28' 22.9" W
TP5	1-16-08	20'		759		33° 17' 71.9" N 103° 28' 22.9" W
TP5	1-16-08	22'		1,040		33° 17' 71.9" N 103° 28' 22.9" W
TP5	1-16-08	23'		1,019		33° 17' 71.9" N 103° 28' 22.9" W

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

Field Analytical Report Form

Client Pride Energy **Analyst** Jason Jessup

Site State X #1

Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP5	1-16-08	24'		434		33° 17' 71.9" N 103° 28' 22.9" W
TP5	1-16-08	26'		546	4.5	33° 17' 71.9" N 103° 28' 22.9" W
Background	1-15-08	Surface		270		

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Monitor Well Report Form

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

Site State X #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	33.5'	52.5'	19.0'	9.3	9.5	12:27pm

Notes Sampled for TPH 8015M and Chloride

Signature _____

Analytical Report 296258

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: **296258**
Pride Energy
Project Address: State X # 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 296258. 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. 296258 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 296258

Elke Environmental, Inc., Odessa, TX

Pride Energy

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP # 1	S	Jan-16-08 10:46	16 ft	296258-001
TP # 2	S	Jan-15-08 13:28	10 ft	296258-002
TP # 3	S	Jan-16-08 11:25	22 ft	296258-003
TP # 5	S	Jan-16-08 15:25	26 ft	296258-004

Certificate of Analysis Summary 296258

Elke Environmental, Inc., Odessa, TX

Project Name: Pride Energy

Project Id:

Contact: Logan Anderson

Project Location: State X # 1

Date Received in Lab: Mon Jan-21-08 08:55 am

Report Date: 25-JAN-08

Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	296258-001		296258-002		296258-003		296258-004					
	Field Id:	TP # 1		TP # 2		TP # 3		TP # 5					
	Depth:	16 ft		10 ft		22 ft		26 ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jan-16-08 10:46		Jan-15-08 13:28		Jan-16-08 11:25		Jan-16-08 15:25					
Percent Moisture	***Extracted:***												
	Analyzed:	Jan-21-08 12:40		Jan-21-08 12:41		Jan-21-08 12:42		Jan-21-08 12:43					
	Units/RL:	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		9.21		5.67		1.73		6.28					
TPH by SW8015 Mod	***Extracted:***	Jan-23-08 15:25		Jan-23-08 15:25		Jan-23-08 15:25		Jan-23-08 15:25					
	Analyzed:	Jan-24-08 00:59		Jan-24-08 01:24		Jan-24-08 01:50		Jan-24-08 02:15					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	16.5	ND	15.9	ND	15.3	ND	16.0				
C12-C28 Diesel Range Hydrocarbons		ND	16.5	ND	15.9	ND	15.3	ND	16.0				
C28-C35 Oil Range Hydrocarbons		ND	16.5	ND	15.9	ND	15.3	ND	16.0				
Total TPH		ND		ND		ND		ND					
Total Chloride by EPA 325.3	***Extracted:***												
	Analyzed:	Jan-21-08 14:40		Jan-21-08 14:40		Jan-21-08 14:40		Jan-21-08 14:40					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		149	5.00	149	5.00	106	5.00	383	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 #: 296258 **Project ID:**

Lab Batch #: 712900 **Sample:** 296256-005 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	95.8	100	96	70-135	
o-Terphenyl	43.3	50.0	87	70-135	

Lab Batch #: 712900 **Sample:** 296256-005 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	97.0	100	97	70-135	
o-Terphenyl	43.0	50.0	86	70-135	

Lab Batch #: 712900 **Sample:** 296258-001 / 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	80.2	100	80	70-135	
o-Terphenyl	40.5	50.0	81	70-135	

Lab Batch #: 712900 **Sample:** 296258-002 / 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	75.4	100	75	70-135	
o-Terphenyl	37.8	50.0	76	70-135	

Lab Batch #: 712900 **Sample:** 296258-003 / 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	77.3	100	77	70-135	
o-Terphenyl	38.7	50.0	77	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 #: 296258 **Project ID:**

Lab Batch #: 712900 **Sample:** 296258-004 / 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	73.2	100	73	70-135	
o-Terphenyl	37.0	50.0	74	70-135	

Lab Batch #: 712900 **Sample:** 503748-1-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	95.1	100	95	70-135	
o-Terphenyl	42.2	50.0	84	70-135	

Lab Batch #: 712900 **Sample:** 503748-1-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	83.4	100	83	70-135	
o-Terphenyl	42.2	50.0	84	70-135	

Lab Batch #: 712900 **Sample:** 503748-1-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	93.8	100	94	70-135	
o-Terphenyl	41.4	50.0	83	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 #: 296258 **Project ID:**

Lab Batch #: 712719 **Sample:** 712719-1-BKS **Matrix:** Solid

Date Analyzed: 01/21/2008 **Date Prepared:** 01/21/2008 **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 #: 296258

Project ID:

Analyst: SHE

Date Prepared: 01/23/2008

Date Analyzed: 01/23/2008

Lab Batch ID: 712900

Sample: 503748-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

TPH by SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
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	834	83	1000	805	81	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	847	85	1000	814	81	4	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 # : 296258 **Project ID:**

Lab Batch ID: 712900 **QC- Sample ID:** 296256-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/24/2008 **Date Prepared:** 01/23/2008 **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	1080	874	81	1080	891	83	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1080	902	84	1080	930	86	2	70-135	35	

Lab Batch ID: 712719 **QC- Sample ID:** 296244-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/21/2008 **Date Prepared:** 01/21/2008 **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	8510	20000	28100	98	20000	28900	102	4	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 #: 296258

Lab Batch #: 712888 **Project ID:**

Date Analyzed: 01/21/2008 **Date Prepared:** 01/21/2008 **Analyst:** JLG

QC- Sample ID: 296258-001 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	9.21	11.1	19	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

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Env.

Date/ Time: 1.21.08 8:55

Lab ID # : 290258

Initials: AL

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 296418

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Pride Energy

29-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

29-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: **296418**
Pride Energy
Project Address: State X # 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 296418. 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. 296418 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 296418

Elke Environmental, Inc., Odessa, TX

Pride Energy

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP4 @ 30'	S	Jan-22-08 08:20	30 ft	296418-001

Certificate of Analysis Summary 296418

Elke Environmental, Inc., Odessa, TX

Project Name: Pride Energy

Project Id:
Contact: Logan Anderson
Project Location: State X # 1

Date Received in Lab: Thu Jan-24-08 09:47 am
Report Date: 29-JAN-08
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	296418-001					
	Field Id:	TP4 @ 30'					
	Depth:	30 ft					
	Matrix:	SOIL					
	Sampled:	Jan-22-08 08:20					
Percent Moisture	*Extracted:*						
	Analyzed:	Jan-24-08 11:09					
	Units/RL:	%	RL				
Percent Moisture		7.62					
TPH by SW8015 Mod	*Extracted:*	Jan-25-08 09:55					
	Analyzed:	Jan-26-08 02:34					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	16.2				
C12-C28 Diesel Range Hydrocarbons		ND	16.2				
C28-C35 Oil Range Hydrocarbons		ND	16.2				
Total TPH		ND					
Total Chloride by EPA 325.3	*Extracted:*						
	Analyzed:	Jan-24-08 16:42					
	Units/RL:	mg/kg	RL				
Chloride		1060	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 #: 296418 **Project ID:**

Lab Batch #: 713224 **Sample:** 296418-001 / 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	81.7	100	82	70-135	
o-Terphenyl	41.9	50.0	84	70-135	

Lab Batch #: 713224 **Sample:** 296418-001 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	98.7	100	99	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

Lab Batch #: 713224 **Sample:** 296418-001 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	103	100	103	70-135	
o-Terphenyl	46.3	50.0	93	70-135	

Lab Batch #: 713224 **Sample:** 503878-1-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	103	100	103	70-135	
o-Terphenyl	46.1	50.0	92	70-135	

Lab Batch #: 713224 **Sample:** 503878-1-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	96.0	100	96	70-135	
o-Terphenyl	49.5	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 #: 296418 **Project ID:**

Lab Batch #: 713224 **Sample:** 503878-1-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	104	100	104	70-135	
o-Terphenyl	47.0	50.0	94	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 #: 296418 **Project ID:**

Lab Batch #: 712901 **Sample:** 712901-1-BKS **Matrix:** Solid

Date Analyzed: 01/24/2008 **Date Prepared:** 01/24/2008 **Analyst:** LATCOR

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	91.5	92	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 #: 296418 **Project ID:**

Analyst: SHE **Date Prepared:** 01/25/2008 **Date Analyzed:** 01/26/2008

Lab Batch ID: 713224 **Sample:** 503878-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

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	868	87	1000	889	89	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	888	89	1000	902	90	2	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 # : 296418 **Project ID:**

Lab Batch ID: 713224 **QC- Sample ID:** 296418-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/26/2008 **Date Prepared:** 01/25/2008 **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	1080	905	84	1080	928	86	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1080	919	85	1080	957	89	5	70-135	35	

Lab Batch ID: 712901 **QC- Sample ID:** 296441-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/24/2008 **Date Prepared:** 01/24/2008 **Analyst:** LATCOR

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	1340	2000	3340	100	2000	3360	101	1	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 #: 296418

Lab Batch #: 712937 **Project ID:**

Date Analyzed: 01/24/2008 **Date Prepared:** 01/24/2008 **Analyst:** RBA

QC- Sample ID: 296397-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Percent Moisture **Analyte**	**Parent Sample Result [A]**	**Sample Duplicate Result [B]**	**RPD**	**Control Limits %RPD**	**Flag**
Percent Moisture	7.70	8.69	12	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 — Project Name: Pride Energy

Company Name: Elke Environmental — Project #:

Company Address: P O Box 14167 — Project Loc: State X #1

City/State/Zip: Odessa, TX 79768 — PO #:

Telephone No: 432-366-0043 — Fax No: 432-366-0884 — Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Jason Jessup — e-mail: la_elkeenv@yahoo.com

(lab use only)

ORDER #: 296418

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: TPH: 418.1 / 8015	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	TP4 @ 30'		30'	1-22-08	8:20A		1	X								S	X				X									X

Special Instructions:

	Date	Time		Date	Time
Relinquished by: Jason Jessup	1-24-08	8:00A	Received by:	1-24-08	8:00A
Relinquished by:	1-24-08	9:47A	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam	1-24-08	9:47

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?		N
Labels on container(s)		N
Custody seals on container(s)		N
Custody seals on cooler(s)		N
Sample Hand Delivered by Sampler/Client Rep. ?		N
by Courier? UPS DHL FedEx Lone Star	4029 1955	
Temperature Upon Receipt:	2.0 °C	

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Env.

Date/ Time: 1.24.08 9:47

Lab ID #: 296418

Initials: al

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	2.0 °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 296505

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: **296505**
Pride Energy
Project Address: State X # 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 296505. 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. 296505 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 296505

Elke Environmental, Inc., Odessa, TX

Pride Energy

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW 1	W	Jan-24-08 12:28		296505-001

Certificate of Analysis Summary 296505

Elke Environmental, Inc., Odessa, TX

Project Name: Pride Energy

Project Id:

Contact: Logan Anderson

Project Location: State X # 1

Date Received in Lab: Thu Jan-24-08 04:38 pm

Report Date: 25-JAN-08

Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	296505-001					
	Field Id:	MW 1					
	Depth:						
	Matrix:	WATER					
	Sampled:	Jan-24-08 12:28					
TPH by SW8015 Mod	*Extracted:*	Jan-25-08 11:14					
	Analyzed:	Jan-25-08 13:22					
	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		1120	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 #: 296505 **Project ID:**

Lab Batch #: 713031 **Sample:** 296505-001 / 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	9.97	10.0	100	70-135	
o-Terphenyl	5.89	5.00	118	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 #: 296505 **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 #: 296505
Analyst: SHE
Date Prepared: 01/25/2008
Project ID:
Date Analyzed: 01/25/2008
Lab Batch ID: 713031
Sample: 503808-1-BKS
Batch #: 1
Matrix: Water
Units: mg/L

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	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

Form 3 - MS / MSD Recoveries

Project Name: Pride Energy

Work Order # : 296505 **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 X #1
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 296505

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: 8015M	TPH: 418.1	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 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	12:28		1	X								GW	X			X										X	

Special Instructions:

Laboratory Comments:
Sample Containers Intact? N
VOCs Free of Headspace? N
Labels on container(s) N
Custody seals on container(s) N
Custody seals on cooler(s) N
Sample Hand Delivered by Sampler/Client Rep. ? N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: -1.5 °C

Relinquished by:	Date	Time	Received by:	Date	Time
Jason Jessup	1-24	4:38			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Sam	1-24-08	4:38

N-T Frozen

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Environmental

Date/ Time: 01-24-08 @ 1638

Lab ID # : 296505

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