District I 1625 N. French Dr., Hobbs, NM 88240 District II District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 0 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

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Final Report

Form C-144

June 1, 2004

| F | it o | or Belo | ow-G | rade | Tank | Regi | stratic | on or | Closu | e |
|---|------|---------|------|------|------|------|---------|-------|-------|---|
| | | | - | | | | | | | |

Is pit or below-grade tank covered by a "general plan"? Yes \square No \boxtimes Type of action: Resistration of a pit or below-grade tank \square Closure of a pit or below-grade tank \boxtimes

| Type of detion. Registration of a pit of | enen grade and C elebare of a pit of below grad | |
|--|---|--|
| Operator: Pride Energy CompanyTelephone: | 918-524-9200e-mail address: larrym@ | pride-energy.com |
| Address: <u>POBox 701950 Tulsa, OK 74170-1950</u> | | |
| Facility or well name: <u>South Four Lakes #16</u> API #: <u>30-02</u> | <u>5-36882</u> U/L or Qtr/QtrS | Sec <u>2</u> T_ <u>_12S</u> R <u>34E</u> |
| County: LeaLatitude | <u>33-18-30.5</u> Longitude <u>103-28-48.</u> | 2 NAD: 1927 🗍 1983 🗍 |
| Surface Owner: Federal 🔲 State 🛛 Private 🗋 Indian 🗌 | | RECENTER |
| Pit | Below-grade tank | |
| Type: Drilling 🛛 Production 🗍 Disposal 🗌 | Volume:bbl Type of fluid: | |
| Workover 🔲 Emergency 🛄 | Construction material: | FEB 1 9 2008 |
| Lined 🛛 Unlined 🗌 | Double-walled, with leak detection? Yes 🗌 If not, | explain why not |
| Liner type: Synthetic I Thickness 12 mil Clay | | HUBBS QCD |
| Pit Volumebbl | | |
| | Less than 50 feet | (20 points) XXX |
| Depth to ground water (vertical distance from bottom of pit to seasonal | 50 feet or more, but less than 100 feet | (10 points) |
| high water elevation of ground water.) | 100 feet or more | (0 points) |
| | | |
| Wellhead protection area: (Less than 200 feet from a private domestic | | |
| water source, or less than 1000 feet from all other water sources.) | | (U points) XXX |
| | Less than 200 feet | (20 points) |
| ance to surface water: (norizontal distance to all wetlands, playas, | 200 feet or more, but less than 1000 feet | (10 points) |
| irrigation canals, ditches, and perennial and ephemeral watercourses.) | 1000 feet or more | (0 points) XXX |
| | Ranking Score (Total Points) | 20 points |
| | | |
| if this is a pit closure: (1) Attach a diagram of the facility showing the pit's | relationship to other equipment and tanks. (2) Indicat | te disposal location: (check the onsite box if |
| our are burying in place) onsite 🖾 offsite 🔲 If offsite, name of facility | . (3) Attach a general de | scription of remedial action taken including |
| remediation start date and end date. (4) Groundwater encountered: No 🛛 Y | es 🔲 If yes, show depth below ground surface | ft. and attach sample results. |
| 5) Attach soil sample results and a diagram of sample locations and excavat | ions. | |
| Additional Comments: A burial pit was excavated and lined with a 20 mil | liner. The drilling mud was mixed with Elke Environm | mental Solidification Product at a |
| 20(mud) to 1(product) ratio to solidify the mud then placed in the burial pit | . The burial pit was capped with a 20 mil impervious | liner. After all mud was removed the pit |
| bottoms were sampled Per NMOCD guidelines. A vertical delineation was | performed with a trackhoe and an auger drill rig. All | samples met NMOCD standards at a maximum |
| denth of 30'. A monitor well was installed on the southeast corner of the d | rilling pit and sampled per NMOCD guidelines. The y | water sample met NMOCD standards. The |
| monitor well was plugged. The drilling nit was domed at 4' below ground | surface and canned with a 20 mil impervious liner over | slanning 2' in all directions. The site was |
| house were was plagged. The annual pit was doned at 4 below ground | surface and capped with a 20 min impervious inter ove | mapping 5 in an unections. The site was |
| backmice with clean narive son and contoured to me surrounding area mer | i secured with a seed mixture approved by the landown | |
| I hereby certify that the information above is true and complete to the best | of my knowledge and belief. I further certify that th | e above-described pit or below-grade tank |
| By: Pride Production Co., Inc. | s [], a general permit [], or an (attached) alternat | ive OCD-approved plan 🖄. |
| Date: 2 11 08 Title: General Partner | | |
| Printed Name/Title By: Matthew L. Pride | Signature Matthew L | . Pride |
| Title: President | ot relieve the operator of liability should the contents of | of the nit or tank contaminate ground water or |
| otherwise endanger public health or the environment. Nor does it relieve the | he operator of its responsibility for compliance with an | y other federal, state, or local laws and/or |
| regulations. | | |
| | 12 | 50 p . / |
| Approval: Distributions Chris Williams | Chris Teles | KERNA NZ/NA/2018 |
| | Signature | PDate: US/UT/200 |
| | | NTATIUU |

PODHO 806 431 798

Closure Report

Prepared for Pride Energy

South Four Lakes #16 API # 30-025-36882 Lea County, NM

.

RECEIVED

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FEB 1 9 2008

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

Phone (432) 366-0043 Fax (432) 366-0884

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

February 7, 2008

New Mexico Oil Conservation Division Mr. Chris Williams 1625 N. French Dr. Hobbs, New Mexico 88240

> Re: Pride Energy – South Four Lakes #16 UL 'J' Sec. 2 T12S R34E Lea County, NM API # 30-025-36882

Mr. Chris Williams,

Elke Environmental was contracted by Pride Energy to complete the closure of the South Four Lakes #16 drilling pit. As per the C-144 filed and signed by Chris Williams on 12-10-07 a burial pit was constructed and lined with a 20 mil impervious liner. The drilling mud was mixed with Elke Environmental Solidification Product at a 20 (mud) to 1 (product) ratio to solidify the mud then placed in the burial pit. Bottom samples of the drilling pit were analyzed per NMOCD guidelines. A vertical delineation was performed with a trackhoe, dozer and an auger drill rig to a maximum depth of 30' where the samples met NMOCD standards. As per the email between Logan Anderson (Elke) and Chris Williams (NMOCD) on 1-7-08 a monitor well was installed on the southeast corner of the drilling pit and sampled per NMOCD guidelines. The water sample met NMOCD standards so the drilling pit was domed at 6' below ground surface then capped with a 20 mil impervious liner overlapping 3' in all directions. The burial pit was capped with a 20 mil impervious liner and the monitor well was plugged. The site was backfilled with clean native soil and contoured to the surrounding area then seeded with an approved seed mixture. If you have any questions about the enclosed report please contact me at the office.

Sincerely,

Logan Anderson



Pride Energy South Four Lakes #16 UL 'J' Sec. 2 T12S R34E Lea County, NM ● ↑ N

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

Field Analytical Report Form

Client Pride Energy Analyst Jason Jessup

Site South Four Lakes #16

| Sample ID | Date | Depth | TPH / PPM | Cl / PPM | PID / PPM | GPS |
|-----------|----------|-------|---------------------------------------|----------|-----------|---|
| TP1 | 12-26-07 | 7' | | 7,622 | | 33° 18' 34.6" N |
| | | | | | | $\frac{103^{\circ} 28^{\circ} / 7.9^{\circ} W}{22^{\circ} 19^{\circ} 24.6^{\circ} N}$ |
| TP1 | 12-26-07 | 8' | | 5,285 | | 55 16 54.0 IN 102 ⁰ 28' 77 0" W |
| | | | · · · · · · · · · · · · · · · · · · · | | | 23 ⁰ 19' 34 6" N |
| TP1 | 12-26-07 | 10' | | 5,680 | | 103° 28' 77 9" W |
| | | | | | | 33° 18' 34.6" N |
| | 12-26-07 | 12' | | 5,213 | | 103° 28' 77.9" W |
| TD 1 | 12.26.07 | 1 / ? | | 5.9(0 | | 33° 18' 34.6" N |
| IPI | 12-20-07 | 14 | | 5,860 | | 103° 28' 77.9" W |
| TD1 | 12 26 07 | 16' | | 6 1 4 0 | | 33° 18' 34.6" N |
| 111 | 12-20-07 | 10 | | 0,140 | | 103° 28' 77.9" W |
| Тр1 | 12_27_07 | 18' | | 5 831 | | 33° 18' 34.6" N |
| 11 1 | 12-27-07 | 10 | | 5,651 | | 103° 28' 77.9" W |
| TP1 | 12-27-07 | 20' | | 4 241 | | 33° 18' 34.6" N |
| | 12 27 07 | | | 1,2211 | | <u>103° 28' 77.9" W</u> |
| TP1 | 1-3-08 | 25' | | 2.728 | | 33° 18' 34.6" N |
| | | | | | | <u>103° 28' 77.9" W</u> |
| TP1 | 1-3-08 | 30' | | 148 | 4.1 | 33° 18° 34.6" N |
| | | | _ | | | <u>103° 28' 77.9" W</u> |
| TP2 | 12-26-07 | 7' | | 3,877 | | 33° 18' 35.7" N |
| | | | | | | $103^{\circ} 28^{\circ} 77.8^{\circ} W$ |
| TP2 | 12-26-07 | 8' | | 1,370 | | 33 18 35.7 N $102^{\circ} 29^{\circ} 77 9^{\circ} W$ |
| | - | | | | | <u>105 26 77.6 W</u> 33 ⁰ 18' 35 7" N |
| TP2 | 12-26-07 | 10' | | 715 | | 103° 28' 77 8" W |
| | 10.00.07 | 107 | | 1.0.07 | | 33° 18' 35.7" N |
| IP2 | 12-26-07 | 12 | | 1,367 | | 103° 28' 77.8" W |
| · πηγ | 12 26 07 | 147 | | 705 | | 33° 18' 35.7" N |
| 112 | 12-20-07 | 14 | | 195 | | 103° 28' 77.8" W |
| TP2 | 12_26_07 | 16' | | 705 | | 33° 18' 35.7" N |
| | 12-20-07 | 10 | | 703 | | <u>103° 28' 77.8" W</u> |
| TP2 | 12-27-07 | 17' | | 1 1 97 | | 33° 18' 35.7" N |
| | | | | 1,177 | | <u>103° 28' 77.8" W</u> |
| TP2 | 12-27-07 | 18' | | 1,499 | | 33° 18' 35.7" N |
| | | | | -, | 1 | 103° 28' 77.8" W |

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

Field Analytical Report Form

Client Pride Energy

Analyst Jason Jessup

Site South Four Lakes #16

| Sample ID | Date | Depth | TPH / PPM | Cl/PPM | PID / PPM | GPS |
|------------|----------|---------|-----------|--------|-----------|---|
| TP2 | 1-3-08 | 23' | | 1,219 | | 33° 18' 35.7" N 103° 28' 77 8" W |
| TP2 | 1-3-08 | 25' | | 653 | | 33° 18' 35.7" N 103° 28' 77 8" W |
| TP2 | 1-3-08 | 30' | | 198 | 15.1 | 33° 18' 35.7" N 102° 28' 77.8 W |
| TP3 | 12-27-07 | 8' | | 424 | | 103 28 77.8 W 33° 18' 34.6" N 102° 28' 75 0" W |
| | 12-27-07 | 10' | | 271 | 5.7 | 103° 28° 75.9° W 33° 18' 34.6" N |
| TP4 | 12-26-07 | 8' | | 439 | | 103° 28° 75.9° W 33° 18' 35.9° N 103° 28' 75.9° N |
| TP4 | 12-26-07 | 10' | | 241 | 9.3 | 103° 28° 75.9° W 33° 18' 35.9° N 103° 28' 75.9° N |
| TP5 | 12-26-07 | 8' | | 451 | | 103° 28° 75.9° W 33° 18' 35.4" N 102° 28' 76 0" W |
| TP5 | 12-27-07 | 10' | | 257 | 7.5 | 103 28 76.9 W 33° 18' 35.4" N 102° 28' 76 0" W |
| Background | 12-26-07 | Surface | | 262 | | 103 28 76.9 W |
| | | | | | | |
| | | | | | | |
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P.O. Box 14167 Odessa, TX 79768

Monitor Well Report Form

Client Pride Energy

Date <u>1-23-08</u>

Site South Four Lakes #16

| 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 | 31.1' | 54.3' | 23.2' | 11.3 | 11 | 11:58am |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| | | | | | | |

Notes Sampled for TPH 8015M and Chloride

Signature ____







Analytical Report 296417

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Pride Energy

30-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



30-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: 296417 Pride Energy Project Address: South Four Lakes # 16

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 296417. 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. 296417 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

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Sample Cross Reference 296417 Elke Environmental, Inc., Odessa, TX

Pride Energy

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------|--------------|---------------|
| MW 1 | W | Jan-23-08 11:57 | 31 ft | 296417-001 |



Certificate of Anal Summary 296417

Elke Environmental, Inc., Odessa, TX

Project Name: Pride Energy

Project Id:

Contact: Logan Anderson

Project Location: South Four Lakes # 16

Date Received in Lab: Thu Jan-24-08 09:47 am

Report Date: 30-JAN-08 Project Manager: Brent Barron, II

| | Lab Id: | 296417-001 | | | |
|------------------------------------|------------|-----------------|---|--|-------|
| Analysis Paguastad | Field Id: | MW 1 | | | |
| Anaiysis Kequestea | Depth: | 31 ft | | | |
| | Matrix: | WATER | | | |
| | Sampled: | Jan-23-08 11:57 | | | |
| TPH by SW8015 Mod | Extracted: | Jan-24-08 11:56 | | | 4 |
| | Analyzed: | Jan-24-08 16:19 | | | |
| - | 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-24-08 11:48 | | | |
| | Units/RL: | mg/L RL | | | |
| Chloride | | 154 5.00 | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XBNCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron

Odessa Laboratory Director



- 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

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| | Phone | Fax |
|---|----------------|----------------|
| 11381 Meadowglen Lane Suite L Houston, Tx 77082-2647 | (281) 589-0692 | (281) 589-0695 |
| 9701 Harry Hines Blvd, Dallas, TX 75220 | (214) 902 0300 | (214) 351-9139 |
| 5332 Blackberry Drive, Suite 104, San Antonio, TX 78238 | (210) 509-3334 | (201) 509-3335 |
| 2505 N. Falkenburg Rd., Tampa, FL 33619 | (813) 620-2000 | (813) 620-2033 |
| 5757 NW 158th St, Miami Lakes, FL 33014 | (305) 823-8500 | (305) 823-8555 |
| 6017 Financial Dr., Norcross, GA 30071 | (770) 449-8800 | (770) 449-5477 |







Project Name: Pride Energy

| Work Order #: 296417 | Project ID: | | | | | | | | |
|---|--------------------------------|-------------------------------|------------------------------|-------------------------|-------|--|--|--|--|
| Lab Batch #: 712968 Sample: 296417-001 / SM | 1P Bat | ch: 1 Matri | x: Water | | | | | | |
| Units: mg/L | SUI | RROGATE RE | COVERY S | TUDY | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooctane | 8.34 | 10.0 | 83 | 70-135 | | | | | |
| o-Terphenyl | 4.35 | 5.00 | 87 | 70-135 | | | | | |
| Lab Batch #: 712968 Sample: 503778-1-BKS / | /BKS Batch: 1 Matrix: Water | | | | | | | | |
| Units: mg/L | SURROGATE RECOVERY STUDY | | | | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooctane | 10.2 | 10.0 | 102 | 70-135 | | | | | |
| o-Terphenyl | 4.55 | 5.00 | 91 | 70-135 | | | | | |
| Lab Batch #: 712968 Sample: 503778-1-BLK | BLK Bat | tch: 1 Matri | x: Water | | | | | | |
| Units: mg/L | SURROGATE RECOVERY STUDY | | | | | | | | |
| TPH by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | |
| 1-Chlorooctane | 8 24 | 10.0 | 82 | 70-135 | | | | | |
| o-Terphenyl | 4.27 | 5.00 | 85 | 70-135 | | | | | |
| Lab Batch #: 712968 Sample: 503778-1-BSD | BSD Ba | tch: 1 Matri | ix: Water | ſ | I | | | | |
| Units: mg/L | SU | RROGATE RI | ECOVERY | STUDY | | | | | |
| | | | | Control | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Limits %R | Flags | | | | |
| TPH by SW8015 Mod Analytes 1-Chlorooctane | Amount Found [A] 11.9 | True Amount [B] 10.0 | Recovery %R [D] 119 | Limits %R | Flags | | | | |

** 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 #: 296417 Project ID: | | | | | | | |
|----------------------------------|-------------------------|----------------|----------------------------------|----------------|-------------------|-------|--|
| Lab Batch #: 712865 | Sample: 712865- | 1-BKS | Matrix: Water Analyst: LATCOR | | | | |
| Date Analyzed: 01/24/2008 | Date Prepared: 01/24/20 | 008 | | | | | |
| Reporting Units: mg/L | Batch #: 1 | BLANK / | BLANK SPIKE RECOVERY STUDY | | | | |
| Total Chloride by EPA 325.3 | Blank Result | Spike Added | Blank Spike | Blank Spike | Control Limits | Flags | |
| Analytes | [A] | [B] | Result [C] | %R [D] | %R | | |
| Chloride | ND | 100 | 95.7 | 96 | 80-120 | | |







Project Name: Pride Energy

| Work Order #: 296417 Analyst: SHE Lab Batch ID: 712968 | Sample: 503778-1-B | Date Prepared: 01/24/2008 503778-1-BKS Batch #: 1 | | | | Project ID: Date Analyzed: 01/24/2008 Matrix: Water | | | | | | | |
|--|--------------------|--|-----------------------|---------------------------------|-----------------------------|---|---|-------------------------------|----------|-------------------------|---------------------------|------|--|
| Units: mg/L BLANK /BLANK SPIKE / BLANK | | | | | | | PIKE DUPI | ICATE | RECOVI | ERY STUD | Y | | |
| TPH by SW80 Analytes | 15 Mod | 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 Hydroca | arbons | ND | 100 | 88.2 | 88 | 100 | 105 | 105 | 17 | 70-135 | 25 | | |
| C12-C28 Diesel Range Hydrocar | rbons | ND | 100 | 91.0 | 91 | 100 | 108 | 108 | 17 | 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







Project Name: Pride Energy

| Work Order #: 296417 | | | | | | Project II | D: | | | | |
|---|--|-------------------|-------------------------|------------------|------------------|----------------------------|-----------------|-----|-------------------|-------------------|------|
| Lab Batch ID: 712865 Date Analyzed: 01/24/2008 | QC- Sample ID: Date Prepared: | 296416 01/24/2 | -001 S 2008 | Ba An | tch #: alyst: | 1 Matri LATCOR | x: Water | | | | |
| Reporting Units: mg/L | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
| Total Chloride by EPA 325.3 | Parent Sample | Spike | Spiked Sample Result | Spiked Sample | Spike | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %к [G] | /0 | %K | %RFD | |
| Chloride | 3930 | 5000 | 9090 | 103 | 5000 | 9150 | 104 | 1 | 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

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

| En A Xeno | vironment • Laboratories Compar | al Lab of ' | Texa | 35 | | | | | 1260 Odes | C We 158, ' | C/ est l- Texa | 4 <i>A//</i> 20 E 15 79 | N O Seat 9765 | F CL | /ST | ODY | R | co | RD. | ANI | D AI | Pho Fa | YS one: x: | /S F 432 432 | REQ 2-56: 2-56: | 9 <i>UE</i> 3-18 3-17 | <i>ST</i> 00 13 | | | | |
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| | Project Manager: | Logan Anderson | <u> </u> | | | | | | | | | | | | | | Proj | est P | lemi | | | <u>_</u> | d | E | ne | <u>cg</u> | <u>x</u> | | | | |
| | Company Name | Elke Environmer | ntal | | <u></u> | | | | | | _ | | | | | | | Proj | ect i | <u>ا: _</u> | | | | | | | | | | | |
| | Company Address: | P O Box 14167 | | | | | | | | | | | | | | | P | ojec | Loc | <u>،</u> _ ـ | 50. | ×H | h | FJ. | hr i | La, | kes | # | 15 | | |
| | City/State/Zip: | Odessa, TX 797 | 68 | | | | | | | | | | | | _ | | | | PO d | !: | | | | | | | | | | | |
| | Telephone No: | 432-366-0043 | | | | Fax No: | | 43 | 2-36 | 6-0 | 884 | <u>ا</u> | | | _ | Rep | ort | Form | at: | ß | T Sta | inda | rd | | | TRR | P | ۵ | NPD | DES | J |
| | Sampler Signature: | _ Jeson | Als | Lup | | e-mail: | | <u>la</u> | eike | env | /@) | yah | 00. | com | <u> </u> | | | | | | | | | | | | | | | | |
| (lab use | only) | | 0 | ' | | | | | | | | | | | | | ł | | | | CLP | A L | nalyz | ze Fo | or III | Т | Т | | Н | | ĺ |
| ORDE | R#: 29041 | 1 | | | | · | | _ | Pre | Berve | tion 8 | # of (| Conte | iners | T | Matri | | B | Т | T | | 8 | \vdash | | 8 | | | | | Ĩ | L |
| LAB # (leth use only) | FIEL | D CODE | Jeginalng Depth | Ending Depth | Date Sempleri | Time Sampled | held Fillened | otal 6. of Containers | a la | Ţ | H,30, | NaOH | Na ₂ S ₂ O ₃ | None Other (Scentry | Office (sportig) | GW - Grundweise Societisate | Noveloe Potente Specily Other | TPHE ATEL MOTION 9 BD | Cotions (Ca. Ma. Ma. 10 | Aniants (C) SOK, Alaminity) | SARIESPICEC | Motate: As Ag Ba Cd Cr Pb Hg | Volution | Serrenchalles | BTEX 80218/6030 or BTEX 82 | 5 | NORM | | | RUSH TAT Pre-Scheddely 24 | Standard TAT |
| 01 | MWI | | 31' | † | 1-23-08 | 11:57A | 1 | 17 | मे | Ť | 1- | H | | + | Ť | Św | Ť | <u>(</u> | T | X | ľ | F | Ĩ | - | - | 1 | ┭ | + | 「ち | ΣŤ | ¥ |
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| | | | | <u> </u> | | | | Ц | + | \downarrow | | | _ | | ╀ | · · · | 4 | + | +- | + | | Ц | | | \downarrow | + | ╇ | \square | -+- | 4 | _ |
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| <u> </u> | | | | | ļ | | | | _ | 4- | ļ | | 4 | _ | 4- | | ╇ | _ | ╇ | <u> </u> | | | 4 | - | _ | _ | | \vdash | + | \downarrow | _ |
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In



Sample Receipt Checklist

| 8)6)6)6)6 | No No No No No | 2.0 °C Not Present Not Present |
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| E)E)E E E E E | No No No No | Not Present Not Present |
| 3030 | No No No | Not Present Not Present |
| 8)8)8) 8) | No No No | Not Present |
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| 65 | | |
| × • • • • | No | |
| es | No | ID written on Cont./ Lid |
| 69 | No | Not Applicable |
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| 69 | No | See Below |
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| 13. e | <u>iample</u> | was not preserved |
| | | |
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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 295416

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Pride Energy

30-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



30-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: 295416 Pride Energy Project Address: South Four Lakes #16

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 295416. 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. 295416 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

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Sample Cross Reference 295416



Elke Environmental, Inc., Odessa, TX

Pride Energy

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------------|--------------|---------------|
| TP1@30' | S | Jan-03-08 10:40 | 30' ft | 295416-001 |
| TP2@30' | S | Jan-03-08 10:20 | 30' ft | 295416-002 |
| TP3@10' | S | Dec-27-07 13:45 | 10' ft | 295416-003 |
| TP4@10' | S | Dec-27-07 12:20 | 10' ft | 295416-004 |
| TP5@10' | S | Dec-27-07 11:45 | 10' ft | 295416-005 |



Certificate of Anal Summary 295416

Elke Environmental, Inc., Odessa, TX

Project Name: Pride Energy

| Project Id: | |
|--------------------------|---------------------|
| Contact: | Logan Anderson |
| Project Location: | South Four Lakes #1 |

| Project Iu: | | | | | | - 6, | _ | | | | | |
|---------------------------------------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------|-----------------|--------|-----------------|----------|---|
| Contact: Logan Anderson | | | | | | | Da | te Received in | Lab: | Fri Jan-04-08 (| J2:45 pr | n |
| reject Location: South Four Lakes #16 | | | | | | | | Report | Date: | 30-JAN-08 | | |
| | | | | | | | | Project Mar | 1ager: | Brent Barron, | II | |
| | Lab Id: | 295416-0 | 01 | 295416-002 | | 295416-003 | | 295416-004 | | 295416-0 | 05 | |
| Anglusia Degregated | Field Id: | TP1@3 | 0' | TP2@30' | | TP3@10' | | TP4@10' | | TP5@10' | | |
| Analysis Kequesiea | Depth: | 30' ft | 30' ft | | 30' ft | | 10' ft | | 10' ft | | | |
| | Matrix: | SOIL | SOIL | | SOIL | | SOIL | | SOIL | | | |
| | Sampled: | Jan-03-08 | Jan-03-08 10:40 | | Jan-03-08 10:20 | | 13:45 | Dec-27-07 1 | 2:20 | Dec-27-07 11:45 | | |
| TPH by SW8015 Mod | Extracted: | Jan-07-08 13:17 | | Jan-07-08 13:17 | | Jan-07-08 13:17 | | Jan-07-08 13:17 | | Jan-07-08 14:55 | | |
| | Analyzed: | Jan-07-08 2 | 2:24 | Jan-07-08 22:50 | | Jan-07-08 23:16 | | Jan-07-08 23:42 | | Jan-08-08 13:58 | | |
| | 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 | 16.5 | ND | 17.1 | ND | 18.1 | ND | 16.5 | |
| C12-C28 Diesel Range Hydrocarbons | | ND | 15.8 | ND | 16.5 | ND | 17.1 | ND | 18,1 | ND | 16.5 | |
| C28-C35 Oil Range Hydrocarbons | | ND | 15.8 | ND | 16.5 | ND | 17.1 | ND | 18.1 | ND | 16.5 | |
| Total TPH | | ND | | ND | | ND | | ND | | ND | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Brent Barron

Odessa Laboratory Director



Project Id:

Certificate of Anales Summary 295416

Elke Environmentai, Inc., Odessa, TX

Project Name: Pride Energy

| Troject Id. | | | • | | | | D., | 4. D | Take | En: Inn 04 09 | 02.45 - | - |
|--|------------|-----------|-----------------|-------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|----------|-----|
| Contact: Logan Anderson | | | | | | | Da | he Received II | i LaD: | 111 Jan-04-08 | 02.45 pi | .11 |
| Project Location: South Four Lakes #16 | | | | | | | | Report | Date: | 30-JAN-08 | | |
| rojeet Location, Sould rout Lakes 710 | | | | | | | | Project Ma | nager: | Brent Barron, | П | |
| | Lab Id: | 295416- | 295416-001 | | 295416-002 | | 295416-003 | | 295416-004 | | 005 | |
| Anglusia Banuarta I | Field Id: | TP1@: | 30' | TP2@30' | | TP3@30' | | TP4@30' | | TP5@30' | | |
| Analysis Kequestea | Depth: | 30' fi | 30' ft | | 30' ft | | 10' ft | | 10' ft | | | |
| | Matrix: | SOII | SOIL | | SOIL | | SOIL | | SOIL | | | |
| Sampled | | Jan-03-08 | Jan-03-08 10:40 | | Jan-03-08 10:20 | | 13:45 | Jan-03-08 | 12:20 | Jan-03-08 | 11:45 | |
| Percent Moisture | Extracted: | | | | | | | | | | | |
| i ci cent Mosture | Analyzed: | Jan-04-08 | Jan-04-08 15:40 | | Jan-04-08 15:40 | | Jan-04-08 15:40 | | Jan-04-08 15:40 | | 15:40 | |
| | Units/RL: | % | RL | % | RL | % | RL | % | RL | % | RL | |
| Percent Moisture | | 5.36 | | 9.23 | | 12.1 | | 16.9 | | 9.11 | | |
| Total Chloride by EPA 325 3 | Extracted: | | | | | | | | | | | |
| Louis Caloriae by Errozolo | Analyzed: | Jan-07-08 | 08:15 | Jan-07-08 (| 8:15 | Jan-07-08 08:15 | | Jan-07-08 08:15 | | Jan-07-08 09:10 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | |
| Chloride | | 67.4 | 5.28 | 70.3 | 5.51 | 96 8 | 5.69 | 205 | 6.02 | 46.8 | 5.50 | 1 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratores XENCO Laboratories assumes no responsibility and makes no warranny to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Brent Barron

Odessa Laboratory Director

Flagging Criteria

- XENCO Laboratories
- 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

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Project Name: Pride Energy

| Work Order #: 295416 | | Project ID | 1 | | | | | | | |
|--|--------------------------|-------------------------|-----------------------|-------------------------|-------|--|--|--|--|--|
| Lab Batch #: 711711 Sample: 295410-001 S / M | S Bat | ch: ¹ Matrix | : Soil | <u> </u> | | | | | | |
| Units: mg/kg | SUI | RROGATE RE | COVERY S | TUDY | | | | | | |
| TPH by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| Allalytes | | 100 | | | | | | | | |
| 1-Chlorooctane | 101 | 100 | | 70-135 | | | | | | |
| o-Terpheny! | 41.0 | 50.0 | ده | /0-155 | | | | | | |
| Lab Batch #: 711711 Sample: 295410-001 SD / | MSD Bat | ch: 1 Matrix | k: Soil | | | | | | | |
| Units: mg/kg | SURROGATE RECOVERY STUDY | | | | | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1-Chlorooctane | 97.1 | 100 | 97 | 70-135 | | | | | | |
| o-Terphenyl | 40.3 | 50.0 | 81 | 70-135 | | | | | | |
| Lab Batch #: 711711 Sample: 295416-001 / SM | P Bat | tch: 1 Matri | x: Soil | | | | | | | |
| Units: mg/kg | SU | RROGATE RE | COVERY S | STUDY | | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1-Chlorooctane | 91.5 | 100 | 92 | 70-135 | | | | | | |
| o-Terphenyl | 44.6 | 50.0 · | 89 | 70-135 | | | | | | |
| Lab Batch #: 711711 Sample: 295416-002 / SM | P Ba | tch: 1 Matri | r: Soil | L | | | | | | |
| Units: mg/kg | SURROGATE RECOVERY STUDY | | | | | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1-Chlorooctane | 81.1 | 100 | 81 | 70-135 | | | | | | |
| o-Terphenyl | 40.0 | 50.0 | 80 | 70-135 | | | | | | |
| Lab Batch #: 711711 Sample: 295416-003 / SM | P Ba | tch: ¹ Matri | x: Soil | <u></u> | | | | | | |
| Units: mg/kg | SU | RROGATE RE | COVERY | STUDY | | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1-Chlorooctane | 81.8 | 100 | 82 | 70-135 | | | | | | |
| o-Terphenyl | 40.8 | 50.0 | 82 | 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.







Project Name: Pride Energy

| Work Order #: 295416 | | Project ID | : | | | | | | | |
|---|-----------------------------|-------------------------|-----------------------|-------------------------|-------|--|--|--|--|--|
| Lab Batch #: 711711 Sample: 295416-004 / SM | P Bat | ch: 1 Matri | r: Soil | | | | | | | |
| Units: mg/kg | SUI | RROGATE RE | COVERY S | TUDY | | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1-Chlorooctane | 80.9 | 100 | 81 | 70-135 | j | | | | | |
| o-Terphenyl | 40.4 | 50.0 | 81 | 70-135 | | | | | | |
| Lab Batch #: 711711 Sample: 503143-1-BKS/ | BKS Bat | ch: 1 Matri | x: Solid | | | | | | | |
| Units: mg/kg | SURROGATE RECOVERY STUDY | | | | | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1-Chlorooctane | 96.5 | 100 | 97 | 70-135 | | | | | | |
| o-Terphenyl | 40.8 | 50.0 | 82 | 70-135 | | | | | | |
| Lab Batch #: 711711 Sample: 503143-1-BLK / | /BLK Batch: 1 Matrix: Solid | | | | | | | | | |
| Units: mg/kg | SU | RROGATE RF | COVERY | STUDY | à | | | | | |
| TPH by SW8015 Mod | Amount Found | True Amount | Recovery | Control Limits | Flags | | | | | |
| Analytes | [A] | [B] | %R [D] | %K | | | | | | |
| 1-Chlorooctane | 88.5 | 100 | 89 | 70-135 | | | | | | |
| o-Terphenyl | 43.9 | 50.0 | 88 | 70-135 | | | | | | |
| Lab Batch #: 711711 Sample: 503143-1-BSD / | BSD Ba | tch: ¹ Matri | x: Solid | _ | _ | | | | | |
| Units: mg/kg | SU | RROGATE RE | COVERY | STUDY | | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1-Chlorooctane | 95.7 | 100 | 96 | 70-135 | | | | | | |
| o-Terphenyl | 38.7 | 50.0 | 77 | 70-135 | | | | | | |
| Lab Batch #: 711871 Sample: 295416-005 / SM | IP Ba | tch: ¹ Matri | x: Soil | <u></u> | | | | | | |
| Units: mg/kg | SU | RROGATE RE | COVERY | STUDY | | | | | | |
| TPH by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | | | |
| 1-Chlorooctane | 76.3 | 100 | 76 | 70-135 | | | | | | |
| o-Terphenyl | 41.3 | 50.0 | 83 | 70-135 | | | | | | |

** Surrogates outside limits; data and surrogates confirmed by reanalysis *** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.







Project Name: Pride Energy

| Work Order #: 295416 | | Project II |): | | | | | | | |
|--|--------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|--|--|
| Lab Batch #: 711871 Sample: 295420-001 S / 1 | MS Bat | ch: 1 Matri | x: Soil | VET TEXT | | | | | | |
| Units: mg/kg | SUI | RROGATE RE | COVERYS | | | | | | | |
| TPH by SW8015 Mod Analytes | 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 Bat | ch: 1 Matri | x: Soil | | | | | | | |
| Units: mg/kg | SURROGATE RECOVERY STUDY | | | | | | | | | |
| TPH by SW8015 Mod | 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: 503175-1-BKS | / BKS Bat | tch: 1 Matr | ix: Solid | · | · | | | | | |
| Units: mg/kg | SU | RROGATE RI | ECOVERY | STUDY | | | | | | |
| TPH by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | | |
| Analytes | | | [D] | | | | | | | |
| 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 Bat | tch: 1 Matr | ix: Solid | | | | | | | |
| Units: mg/kg | SU | RROGATE R | ECOVERY | STUDY | | | | | | |
| TPH by SW8015 Mod Analytes | 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 Ba | tch: 1 Matr | ix: Solid | | | | | | | |
| Units: mg/kg | SU | RROGATE R | ECOVERY | STUDY | | | | | | |
| TPH by SW8015 Mod | Amount | True Amount | Recovery | Control Limits | Flags | | | | | |
| Analytes | Found [A] | [B] | %R [D] | %R | | | | | | |
| Analytes 1-Chlorooctane | [A] 100 | [B] | %R [D] 100 | %R 70-135 | | | | | | |

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

*** Poor recoveries due to dilution

Surrogate Recovery $[D] \approx 100 * A / B$ All results are based on MDL and validated for QC purposes.

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Project Name: Pride Energy

| Work Order #: 295416 | | Project ID: | | | | | | | | | | | |
|-----------------------------|-----------|-------------------|----------------|--------------------------|-------------------------|-------------------------|-------|--|--|--|--|--|--|
| Lab Batch #: 711552 | Sa | mple: 711552- | 1-BKS | Matri | x: Solid | | | | | | | | |
| Date Analyzed: 01/07/2008 | Date Prep | pared: 01/07/20 |)08 | Analys | | | | | | | | | |
| Reporting Units: mg/kg | Ba | i tch #: 1 | BLANK /F | SLANK SPI | ANK SPIKE RECOVERY STUD | | | | | | | | |
| Total Chloride by EPA 325.3 | | Blank Result | Spike Added | Blank Spike Posult | Blank Spike %P | Control Limits %R | Flags | | | | | | |
| Analytes | | נהן | رما | [C] | [D] | | | | | | | | |
| Chloride | | ND | 100 | 93.6 | 94 | 75-125 | | | | | | | |
| Lab Batch #: 711564 | Sa | ample: 711564- | -1-BKS | Matri | x: Solid | | | | | | | | |
| Date Analyzed: 01/07/2008 | Date Prep | pared: 01/07/2(| .008 | Analys | st: IRO | | | | | | | | |
| Reporting Units: mg/kg | Ba | itch #: 1 | BLANK /F | JLANK SPU | KE REC | OVERY S | STUDY | | | | | | |
| Total Chloride by EPA 325.3 | | Blank Result | Spike Added | Blank Spike | Blank Spike | Control Limits | Flags | | | | | | |
| Analytes | | [A] | [B] | Result [C] | %R [D] | %R | | | | | | | |
| 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.







Project Name: Pride Energy

| Work Order #: 295416 Analyst: SHE | Date Prepared: 01/07/2008 | | | | | Project ID: Date Analyzed: 01/07/2008 | | | | | | | |
|---|----------------------------------|---|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|------------|-------------------------|---------------------------|------|--|--|
| Lab Batch ID: 711711 Sample: 503143-1-3 | BKS | Batc | h #: 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 | 948 | 95 | 1000 | 955 | 96 | 1 | 70-135 | 35 | | | |
| C12-C28 Diesel Range Hydrocarbons | ND | 1000 | 888 | 89 | 1000 | 895 | 90 | 1 | 70-135 | 35 | | | |
| Analyst: SHE | Da | ate Prepar | ed: 01/07/200 | 8 | | | Date A | nalyzed: (| 01/08/2008 | | | | |
| Lab Batch ID: 711871 Sample: 503175-1-H | KS Batch #: 1 Matrix: Solid | | | | | | | | | | | | |
| Units: mg/kg | | BLAN | K/BLANK S | SPIKE / E | BLANK S | PIKE DUPI | ICATE | RECOVE | ERY STUD | Y | | | |
| 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 - Mrs / MSD Recoveries





| Work Order # : 295416 | | | | | | Project | ID: | | | | | |
|--|---|--|--|--|---|---|---|---|---|--|----------|--|
| Lab Batch ID: 711711 C Date Analyzed: 01/08/2008 | C- Sample ID: Date Prepared: | 295410 01/07/2 | -001 S 008 | Ba An | tch #: alyst: | 1 Mat SHE | ix: Soil | | | | | |
| Reporting Units: mg/kg | | M | ATRIX SPIK | E / MAT | RIX SPI | KE DUPLIC | ATE REC | OVERY | STUDY | | <u> </u> | |
| TPH by SW8015 Mod | Parent Sample Result | Spike Added | Spiked Sample Result | Spiked Sample %R | Spike Added | Duplicate Spiked Samp Result (F) | Spiked e Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag | |
| Analytes | [A] | [B] | [0] | [D] | (E) | | [G] | | , | | | |
| C6-C12 Gasoline Range Hydrocarbons | ND | 1050 | 1030 | 98 | 1050 | 1000 | 95 | 3 | 70-135 | 35 | | |
| C12-C28 Diesel Range Hydrocarbons | ND | 1050 | 976 | 93 | 1050 | 947 | 90 | 3 | 70-135 | 35 | | |
| Lab Batch ID: 711871 Q Date Analyzed: 01/08/2008 1 | C- Sample ID: Date Prepared: | 295420 01/07/2 | -001 S 008 | Ba An | tch #: alyst: | 1 Mata SHE | ix: Soil | | | | | |
| Reporting Units: mg/kg | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | |
| | | | | | | | | | | | | |
| TPH by SW8015 Mod Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Samp Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag | |
| TPH by SW8015 Mod Analytes C6-C12 Gasoline Range Hydrocarbons | Parent Sample Result [A] ND | Spike Added [B] 1050 | Spiked Sample Result [C] 1020 | Spiked Sample %R [D] 97 | Spike Added [E] 1050 | Duplicate Spiked Sampl Result [F] | Spiked Dup. %R [G] 98 | RPD % | Control Limits %R | Control Limits %RPD 35 | Flag | |
| TPH by SW8015 Mod Analytes C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons | Parent Sample Result [A] ND ND | Spike Added [B] 1050 1050 | Spiked Sample Result [C] 1020 948 | Spiked Sample %R [D] 97 90 | Spike Added [E] 1050 | Duplicate Spiked Sampl Result [F] 1030 948 | Spiked Dup. %R [G] 98 90 | RPD % | Control Limits %R 70-135 70-135 | Control Limits %RPD 35 35 | Flag | |
| TPH by SW8015 Mod Analytes C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons Lab Batch ID: 711552 Q Date Analyzed: 01/07/2008 I Description I | Parent Sample Result [A] ND ND C- Sample ID: Date Prepared: | Spike Added [B] 1050 1050 295419- 01/07/20 | Spiked Sample Result [C] 1020 948 0001 S 008 | Spiked Sample %R [D] 97 90 Ba An | Spike Added [E] 1050 1050 tch #: alyst: | Duplicate Spiked Sampl Result [F] 1030 948 1 Matr IRO | Spiked Dup. % R [G] 98 90 ix: Soil | RPD % | Control Limits %R 70-135 70-135 | Control Limits %RPD 35 35 | Flag | |
| TPH by SW8015 Mod Analytes C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons Lab Batch ID: 711552 Q Date Analyzed: 01/07/2008 I Reporting Units: mg/kg | Parent Sample Result [A] ND ND C- Sample ID: Date Prepared: | Spike Added [B] 1050 1050 295419- 01/07/20 M | Spiked Sample Result [C] 1020 948 001 S 008 ATRIX SPIKI | Spiked Sample %R [D] 97 90 Ba An E / MATT | Spike Added [E] 1050 1050 tch #: alyst: RIX SPI | Duplicate Spiked Sampl Result [F] 1030 948 1 Matr IRO KE DUPLIC | Spiked Dup. %R [G] 98 90 ix: Soil | RPD % | Control Limits %R 70-135 70-135 STUDY | Control Limits %RPD 35 35 | Flag | |
| TPH by SW8015 Mod Analytes C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons Lab Batch ID: 711552 Q Date Analyzed: 01/07/2008 I Reporting Units: mg/kg Total Chloride by EPA 325.3 Analytes | Parent Sample Result [A] ND ND C- Sample ID: Date Prepared: Parent Sample Result [A] | Spike Added [B] 1050 295419- 01/07/20 M Spike Added [B] | Spiked Sample Result [C] 1020 948 001 S 008 ATRIX SPIKI Spiked Sample Result [C] | Spiked Sample %R [D] 97 90 Ba An E / MATT Spiked Sample %R [D] | Spike Added [E] 1050 1050 tch #: alyst: RIX SPI Spike Added [E] | Duplicate Spiked Sampl Result [F] 1030 948 1 Math IRO KE DUPLIC Duplicate Spiked Sampl Result [F] | Spiked Dup. %R [G] 98 90 ix: Soil ATE REC Spiked Dup. %R [G] | RPD % 1 0 OVERY : RPD % % | Control Limits %R 70-135 70-135 STUDY Control Limits %R | Control Limits %RPD 35 35 35 Control Limits %RPD | Flag | |

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 ELABOR | Form 3 - MS / MSD Recoveries | | | | | | | | | | | | |
|-----------------------------|------------------------------|--------------|---------------|-----------|--------------|------------|----------------|---------|---------|---------|--------------|--|--|
| | Proje | ect Nar | ne: Pride E | Energy | | | | | | | ICA E | | |
| Work Order # : 295416 | | | | | | Project I | D: | | | | | | |
| Lab Batch ID: 711564 | QC- Sample ID: | : 295410 | -003 S | Ba | tch #: | 1 Matri | x: Soil | | | | | | |
| Date Analyzed: 01/07/2008 | Date Prepared | ; 01/07/2 | .008 | An | alyst: | IRO | | | | | | | |
| Reporting Units: mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY S | STUDY | | | | |
| Total Chloride by EPA 325.3 | Parent | Guilto | Spiked Sample | Spiked | Friko | Duplicate | Spiked | DDD | Control | Control | Flog | | |
| Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | ridg | | |
| Chloride | 44.3 | 1040 | 1110 | 102 | 1040 | 1170 | 108 | 6 | 75-125 | 30 | | | |

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.

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 #: 295416

| Lab Batch #: 711549 | | | | Project I | D: | |
|-----------------------------|-------------|-----------------------------|-------------------------------|-----------|---------------------------|-------|
| Date Analyzed: 01/04/2008 | Date Prepar | ed: 01/ | 04/2008 | Analy | st: ЛLG | |
| QC- Sample ID: 295410-003 D | Bate | n #: | 1 | Matr | ix: Soil | |
| Reporting Units: % | S | AMPLE | / SAMPLE | DUPLIC | ATE REC | OVERY |
| Percent Moi | sture Par | ent Sample Result [A] | Sample Duplicate Result | RPD | Control Limits %RPD | Flag |
| Analyte | • | | [B] | | | |
| Percent Moisture | | 3.93 | 4.34 | 10 | 20 | |

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



| Environ A Xenco Laborator | ment les Compas | al La | b of T | exa | as | | | | | 126 Odi | 00 W | (est Tex | HA 1-20 (as 7 | /N C Eas 976 | 0/= C t 5 | cus | тор | Y F | EC | ORI | D AI | ND . | ANA Pi F | iL) ion ax; | '5/5 0: 43 4: | RE()2-5()2-5(| QUI 63-1 63-1 | EST 800 713 | | | | |
|--|------------------------|---------|---------------------------|-----------------|-------------------------|-----------------------------|---------------------------------------|---------------|-----------------------|----------------|--|-------------|---------------------|--------------------|-----------------------|------------------|---|--------------------------------|----------------------|---------------------|---|---|---|--------------------------|--|---|----------------------------|-------------------|---------------------------------|------------|-----------------------|--------------|
| Project M | lanager: | Logan A | nderson | | | | | | | | | | | | | | | Pr | ojeci | t Nav | me: | | Prie | de | E | e | J.7. | | | | | _ |
| Compan | y Name | Eike En | vironment | al | | | | | | | | | | | | | | | Pr | ojec | t#: | | | | | | _ | | | | | |
| Compan | y Address: | P O Box | 14167 | | | | | | | | | | | | | | | I | Proje | oct L | 00: | 5 | mt | 6 | For | <u>r l</u> | at | es | Ħ | <u>†/5</u> | 5_ | |
| City/Stat | e/Zip: | Odessa, | TX 7976 | 8 | | 7 | | | | | | | | | | | | | | PC | >#:_ | | | _ | | | | | | | | |
| Telephor | ne No: | 432-366 | -0043 🥖 | / | \angle | | Fax No: | : | 4 | 32-3 | 66-0 | 288 | 4 | | | | Re | ipor | t Fo | rmat | | K. | Stand | lard | | ۵ | TR | RP | ſ | | DES | 3 |
| Sampler | Signature. | f | H | Ž | | | e-mail: | : | la | elk | een | ٧Ø | yał | 100 | .co | m | | _ | | | | | | _ | | | | | | | | , |
| (lab use only) | | | | | | | | | | | | | | | | | | | E | _ | | тÇ | P. | Ana | hyze i | For: | | П | П | T | | |
| ORDER #: 2. | 454 | 14 | | | | | | - | | P | (848/V) | ation | 8.# of | Cont | ainer | a | Ma | rlx | 8 | | | 101/ | <u></u> uí _ | 3 | ╀ | 1 | $\left\{ \right. \right\}$ | | | | 4 | L |
| AB # (lath use only) | 5161 | D CODE | | Jeginning Depth | Ending Depth | Date Sampled | Time Sampled | ield Filtered | dial 6. of Containers | = 2 4 ch g. L. | - Compared and a compared | H-80. | Nach | Na_8_O | Nome | Other (Specify) | W-Christing Watter StStation W - Chronoleveler SectorSolid | Preton-Politicie Specify Other | PH: 418.1 801596 801 | PH: TX 1005 TX 1006 | Jetions (Ca, Mg, Na, K) | Vrients (C) 504, Alcoholy | Methics As Act Ba Col Cr Ph Her | | kentvolaties | ITEX 80218/5030 or 81/EX 82 | ç | VOR.M. | | | RUSH TAT Preschedul M | Standard TAT |
| -cul T1 | 2/8 | 30' | | | 36 | 1-3-08 | 10140 A | | ff | ħ | | + | f | 1 | | - | ŝ | Z | x | | Ť | λŤ | ╧╋╴ | ť | Ť | ٣ | | Ħ | \pm | | F | Å |
| -CIZ TP | 20 3 | D` | | | 30' | 1-3-08 | 10:20 A | | 1 | X | | Ι | Ι | Γ | | | 5 | | X | | | × | Τ | Τ | T | | | | Τ | | | X |
| 1003 TP | <u>3e 10</u> | 1 | | ļ | 10' | 12.27-07 | 1:45 p | | 11 | X | _ | 1 | 1 | | | _ | 5 | | X | | 1 | X | \perp | | 1 | | \square | Ц | _ | Ľ | \square | Ľ |
| tut TP | 10 10' | | | ļ | 10' | 127-1 | 12:30P | ļ | 14 | | \perp | 4 | 1 | | | _ | | | X | _ | _ | × | 4 | ╞ | - | L | \square | | 4 | ╧╋ | | X |
| -cc= 7P9 | <u>e /0</u> | | | ļ | 10' | 12.21-7 | 11:45A | Ļ | μ. | M | | \perp | _ | | | _ | 2 | <u> </u> | 7 | _ | _ | хĻ | 4- | + | + | \vdash | \square | \square | _ | ┯┙ | \vdash | ~ |
| | ···· · · ·· | | | | | 100 W | [| | | ┝╌┼ | + | ╋ | ┢ | \vdash | | - | | | | | + | + | +- | ╀ | ╋ | \vdash | Н | | + | ╇┩ | \vdash | - |
| | | ······ | | | | | | | | ╉┽ | + | ┿ | + | | $\left \right $ | -† | | _ | Η | | + | ╈ | + | $^{+}$ | ┢ | ┝┥ | ┝┥ | \vdash | + | + | Η | - |
| | | | | | ļ | | | | | П | 1. | 1 | | | | \square | | _ | | | | | 1. | ļ | T | | \Box | П | \mp | | \square | |
| Special instructions Relinquished by Relinquished by | 2 | | / Date / -4 0g Date | 2 | те <u>45</u> Р те | Received by Received by: | · · · · · · · · · · · · · · · · · · · | | | L |] | <u> </u> | <u> </u> | | | Date | 0 | | Time | | Labo Sam VOC Labo Cust Cust Sam | pla C a Fre is on ody a pla H | ny Ci ontai e of cont eals eals and | ominer Heiner Sahr | nent t inte idspa ar(s) conta coole | B; ict? ice? iner(iner(iner(| (8) | | N. RAGO - | } | | L |
| Relinguished by | | | Date | TI | me | Received by ELC | Naloy. | | | | | | | | c i) (| Deli 74 | 03 | 14 | Time 144 | 5 | b Temj | y Ser y Co Densi | nplef urler? urle L | Jpo | Int Rec | abot. | DHL | . • | يون معامة: <u>عامة:</u> (| : Lon | N 9 Sla "C | 21 |

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In



Sample Receipt Checklist

| | | | | | Client Initials |
|-----|---|-------------|----|--------------------------|-----------------|
| #1 | Temperature of container/ cooler? | Yes | No | 3.0°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? | 669 | No | Not Present | |
| #5 | Chain of Custody present? | C es | No | | |
| #6 | Sample instructions complete of Chain of Custody? | (Tes | 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 | |
| #1(| Sample matnx/ properties agree with Chain of Custody? | Tes | No | | |
| #11 | Containers supplied by ELOT? | res | No | | |
| #1/ | 2 Samples in proper container/ bottle? | Pes | No | See Below | |
| #1 | 3 Samples property preserved? | (Tes | No | See Below | |
| #1/ | 4 Sample bottles intact? | Yes | No | | |
| #1 | 5 Preservations documented on Chain of Custody? | Yeş | No | | 1 |
| #1 | 6 Containers documented on Chain of Custody? | Tes | No | | 1 |
| #1 | 7 Sufficient sample amount for indicated test(s)? | (193 | No | See Below | |
| #1 | 8 All samples received within sufficient hold time? | (Te) | No | See Below | 1 |
| #1 | 9 Subcontract of sample(s)? | Yes | No | Not Applicable 2 | 1 |
| #2 | 0 VOC samples have zero headspace? | (Yes | No | Not Applicable | 1 |
| | | | | | |

Variance Documentation -----

Date/ Time:

Contact[.] Regarding:

Corrective Action Taken.

Check all that Apply:

See attached e-mail/ fax

Contacted by:

Client understands and would like to proceed with analysis

Cooling process had begun shortly after sampling event

State of New Mexico Energy Minerals and Natural Resources

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

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No X Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank X

| Operator: Pride Energy Company Telephone: | 918-524-9200 e-mail address: larrym@ | dpride-energy.com |
|--|--|---------------------------|
| Address: PO Box 701950 Tulsa, OK 74170-1950 | | |
| Facility or well name: <u>South Four Lakes #15</u> API #: <u>30-02</u> | 5-36882U/L or Qtr/Qtr_J | Sec 2T_12SR 34E |
| County: Lea Latitude | <u>33-18-30.5</u> Longitude <u>103-28-48</u> | 2NAD: 1927 🗌 1983 🔲 |
| Surface Owner: Federal 🔲 State 🛛 Private 🔲 Indian 🗍 | | 28910117273Z |
| Pit | Below-grade tank | 6° A "8 |
| Type: Drilling X Production C Disposal | Volume:bbl Type of fluid: | |
| Workover 🔲 Emergency 🗍 | Construction material: | N DEC 2001 |
| Lined 🛛 Unlined 🗋 | Double-walled, with leak detection? Yes [] If not, | explain why not. Received |
| Liner type: Synthetic I Thickness 12_mil Clay | | Hobbs N |
| Pit Volumebbl | | or out to |
| Depth to ground water (vertical distance from bottom of nit to seasonal | Less than 50 feet | (20 points) XXX |
| bish units claution of ground surface $CW = 40^{\circ}$ | 50 feet or more, but less than 100 feet | (10 points) |
| | 100 feet or more | (0 points) |
| Wallhard extension even: (I see than 200 fast from a private domestic | Yes | (20 points) |
| weinicau proceduli alea. (Less mail 200 feet from all other water sources) | No | (0 points) XXX |
| | Large them 200 East | (20 points) |
| Distance to surface water: (horizontal distance to all wetlands, playas, | 200 fort on more but loss than 1000 fort | (10 points) |
| irrigation canals, ditches, and perennial and ephemeral watercourses.) | 200 feet of more, but less than 1000 feet | |
| | | |
| | Ranking Score (Total Points) | 20 points |

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite \boxtimes offsite \square If offsite, name of facility______. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No \boxtimes Yes \square If yes, show depth below ground surface______ft, and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: All excess drilling fluid will be removed. A burial pit will be excavated and lined with a 20 mil liner. The drilling mud will be mixed with Elke

Environmental Solidification Product at a 20(mud) to 1(product) ratio to solidify the mud then placed in the burial pit. After all mud is removed the pit bottoms will be sampled Per NMOCD guidelines. The drilling pit will be backfilled with clean native soil and contoured to the surrounding area. A final report will be submitted after completion of The job.

NMOCD Hobbs will be given 48 hrs notice before start of job and 48 hrs notice before testing.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines [], a general permit [], or an (attached) alternative OCD-approved plan [].

Date: 12-10-07

Printed Name/Title Logan Anderson - Agent

Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

| Approval: | | - · · | |
|---------------------------------------|-----------|--------------|-------------|
| Printed Name/Title CHRIS WILLIAMS | Signature | Chin William | Date Dialon |
| · · · · · · · · · · · · · · · · · · · | | | |