1R - 493

WORKPLANS

09/04/2008

JAMES BRUCE ATTORNEY AT LAW

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jamesbruc@aol.com

September 4, 2008

Hand delivered

Wayne Price Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

> Re: Inbe 13 Well No. 1 SW¹/₄NE¹/₄ §13-11S-33E Lea County, New Mexico

> > OCD Case No. 1R493

Dear Mr. Price:

Enclosed for filing, on behalf of Pride Energy Company, is a remediation plan.

y truly yours, James Bruce

Attorney for Pride Energy Company

cc: M. Altomare

RECEIVED 2008 SEP 4 PM 3 08

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

September 3, 2008

Wayne Price Bureau Chief NMOCD Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: INBE 13 #1 NMOCD Case # 1R493

Dear Wayne:

Pride formally withdraws the June 26, 2008 submission to NMOCD in order to comply with recent NMOCD communications. Pride will:

- 1. Remove and dispose of all burial trench contents at the Gandy-Marley landfill.
- 2. Over excavate the trench on all sides and beneath the bottom.
- 3. Take four confirmation samples to demonstrate that the burial trench contents did not contaminate the soil or bedrock adjacent to or beneath the burial trench.
- 4. If sampling suggests that a release has occurred, notify NMOCD within 24 hours of receipt of analyses.
- 5. Backfill the burial trench with clean fill to grade and cover to match adjacent areas.
- 6. Submit a report to NMOCD that documents all actions taken in accordance with this plan within 10 days of completion.
- 7. Install a monitoring well less than 30-feet east of the excavation. The monitoring well will be constructed in conformance with NMOCD guidelines.

The excavation of the burial trench will commence as soon as Pride can secure a contractor and permission from the landowner. We can secure a contractor to implement the program prior to September 30, 2008. Securing permission from the landowner to implement the NMOCD-mandated program is not within our complete control and we may require your assistance in this matter.

If a release from the burial trench is documented by sampling, we will develop and submit a remediation plan consistent with Rule 116. Upon NMOCD approval of the remediation plan, we will backfilling the excavation in conformance with the NMOCD-approved remediation plan. We attach additional information requested by NMOCD.

Sincerely, R.T. Hicks Consultants, Ltd.

Randall T. Hicks Principal

Copy: Matt Pride, Pride Energy Pearce Trust – through Pride Energy Noble Energy – through Pride Energy

Site Data

Location

Unit Letter G, 1980 FNL 1980 FEL Section 13 T11s R 33E Lat 33° 22' 3.2" Long 103° 33' 50.37" NAD 83

At the INBE 13 #1 site, Elke Environmental obtained approval from NMOCD to solidify then bury drilling waste. Elke Environmental mixed the drilling waste in the reserve pit used to drill the well with their proprietary solidification product then placed the waste into a 110-foot by 35-foot burial trench that was lined with 20-mil reinforced impermeable material (see Figure 1). Appendix A is the NMOCD-approved drilling pit closure plan submitted by Elke Environmental.



Figure 1: Sketch Map of INBE 13 #1 Site

Plate 1 shows the location relative to Tatum, New Mexico. Plate 2 is a 2005 aerial photograph of the site relative to Highway 380 and 457. Plate 3 is a USGS topographic

map of the site area showing the location of nearby water wells listed in the New Mexico Office of the State Engineer (OSE) database.

Surface Water Hydrology

Plate 4 is a topographic map showing a stock pond approximately 500 feet west of the INBE 13 #1 site. Plate 5 is an aerial photograph at the same scale as Plate 4 showing this stock pond and the production pad associated with the INBE 13 #1 site. The windmill associated with the stock pond is visible as a small black dot approximately 100 feet west of the stock pond. The OSE database shows the well east of the stock pond. Mislocations of this magnitude in the OSE database are common.

The topography of the area is flat and it is difficult to tell from topographic maps if precipitation runoff from the INBE 13 #1 site would flow southeast, coincident with the regional slope, or flow west toward the stock pond which is located within a depression (see Plate 4). A foot survey conducted on June 19, 2008 showed that runoff from the area would flow to small depressions to the east and west of the site identified by blue circles on Figure 2, below. Runoff from the western depression could flow into the larger depression shown on the topographic map as a stock pond.



Figure 2: Image showing local topographical depressions identified by blue circles. Surface water flow from INBE 13 #1 has potential to flow toward these depressions. The drilling waste burial trench is shown as the red rectangle.

Surface Soils

Plate 6 is a soils map (<u>http://soildatamart.nrcs.usda.gov/</u>). The site lies on the Kimbrough-Lea Complex soil unit, which is described in Appendix B. As described in Appendix B, the Kimbrough unit is generally 6-inches thick and composed of gravelly loam which is underlain by cemented caliche. The Lea unit is composed of about 2-feet of loam, underlain by cemented caliche. A foot survey of the area of INBE 13 #1 suggests that the soil is more similar to the Lea unit. Figure 3 is a photograph of an excavation at INBE 13 #2, which is about 2000 feet southwest of INBE 13 #1. In Figure

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3, the loamy soil is about 2 feet thick. The windmill in the distance is the well located due west of the stock pond discussed above.



Figure 3: Soil profile at INBE 13 #2

At the INBE 13 #1 site, a thin layer of caliche gravel covers much of the area overlying the burial trench, except the eastern portion of the pad where dark soil overlies caliche (Figures 4 and 5)



Figure 4: View from the INBE 13 #1wellhead to northeast



Figure 5: Soil profile in eastern site area.

Fine-grained soil underlies the surface caliche in some areas of the site (Figure 6).

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Figure 6: Trenching activities near the east central area of the site.

Characteristics of the Unsaturated Zone

Elke Environmental contracted with White Drilling Company to install a temporary monitoring well at the southeast corner of the former reserve pit. The well log for this boring, which is in Appendix C, shows caliche to a depth of 24 feet with reddish-brown sandy clay underlying the caliche. Lithologic logs from Hicks Consultants borings at nearby sites (e.g. South Four Lakes #15, etc.) are similar to the log presented in Appendix C; however, we observed that a silty-sand was below the caliche layer. The driller reports the depth to water in this 50-foot deep well as 26 feet below ground surface. Elke Environmental reports the depth to water in the 52.2-foot well as 29.7 feet below top of casing (suggesting a 2.2-foot casing height). From these observations, the thickness of the vadose zone is between 26 and 27.5 feet with caliche and soil comprising the upper 24 feet. We believe a sitly-sand comprises the capillary fringe from 24 feet to the water table.

Ground Water Hydrology

Plate 7 is a potentiometric surface map of the area based upon USGS 1996 measurements. At the INBE 13 #1 site, ground water flows from west to east-northeast at a gradient of 0.003.

According to the Office of the State Engineer Technical Report 99-1 (Musharrafieh and Chudnoff), the saturated thickness of the Ogallala Aquifer in the area of INBE 13 #1 ranges between 35 to 140 feet. The total depth of nearby wells are generally 70 to 95 feet and these wells probably penetrate several feet of the underlying redbeds (Dockum Group). Because the water table is approximately 30-feet below ground surface, we can conclude that the saturated thickness of the Ogallala in this area is about 65 feet.

OSE Technical Report 99-1 states that the hydraulic conductivity of the Ogallala in the area of the INBE 13 #1 site ranges from 40-60 feet/day (Plate 8). In general, the lower portion of the Ogallala is coarser-grained than the upper section of the unit. The driller's log of the monitoring well at the INBE 13 #1 site (Appendix C) shows that the uppermost 20-feet of the Ogallala is fine-grained sand and clay is consistent with the observations of others that the Ogallala is a fining-upward sedimentary sequence. Therefore, the hydraulic conductivity of the uppermost 20-feet of the Ogallala will be lower than the values suggested by Musharrafieh and Chudnoff for the entire thickness of the unit. For the purpose of an evaluation of the threat to ground water posed by the burial trench that holds the drilling waste, a hydraulic conductivity value of 30 feet/day is appropriate for the entire the aquifer.

The chloride concentration in a windmill located about 600 feet west of the site is 46.3 mg/L (see Appendix D). The total dissolved solids concentration of this sample is 384 mg/L.

Reports authored by Hicks Consultants that describe several drilling waste release sites in the area show that chloride becomes distributed throughout the upper 30-60 feet of a water table aquifer after a release of brine (e.g. Samson BD-04, Pride South Four Lakes sites).

Land Status

The surface owner is

Noble Energy, Inc. 100 Glenbourough Drive Suite 100 Houston, Texas 77067

Noble Energy, Inc. leases the use of the land surface to:

Pearce Trust 1717 Jackson Pecos, Texas 79772

As Plates 2, 5 and 6 show, the land in the general area of INBE 13 #1 is used for grazing. Figure 3 also shows that the surrounding land is suitable for grazing.



Plates

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104



6/24/2008

S:/PROJECTS/PRIDEENERGY/ADDITIONSITES/INBE/PLATES/CAP_JUNE2008/P1_LOCATIONMAP.MXD



6/24/2008









AW, Arvana-Lea association PC, Portales loam, 0 to 3 percent slopes CLP, Caliche pit PS, Portales-Stegall loams KN, Kimbrough loam, 0 to 3 percent slopes SS, Stegall and slaughter soils 0 1,000 2,000 KO, Kimbrough gravelly loam, 0 to 3 percent slopes Feet R.T. Hicks Consultants, Ltd Soils Map Plate 6 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Pride Energy: INBE #13 Corrective Action Plan June 2008 Ph: 505.266.5004







Appendix A Elke Drilling Pit Closure Plan

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104

District I	•	
1625 N. French Dr., Hobbs, NM 88240 District II Energy Energy	State of New Mexico gy Minerals and Natural Resources	Form C-144 June 1, 2004
1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 District IV	Oil Conservation Division For 1220 South St. Francis Dr.	or drilling and production facilities, submit to propriate NMOCD District Office, 1127, or downstream facilities, submit to Sana Bay
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505 of	fice field the two
Pit or Below	-Grade Tank Registration or Cl	osure /* ool
Is pit or below-grad	de tank covered by a "general plan"? Yes	NO NO NO DEC wed
Type of action: Registration o	f a pit or below-grade tank 🔲 Closure of a pit or belo	ow-grade tank
On another Decide Frances Commence Tak	anhana: 019 524 0200 a mail address:	House OCD
Address: P.O. Box 701950 Tutce OK 74170-1950	childre. <u>918-524-9200</u> c-fildr address.	Par yindoprine-citergy.com
Encility or well name: Inhe 13 #1	30-025-37840 U/L or Ott/Ott G	Sec. 13 T 115 82/R 9756 V
County Lea	titude 33-22-03.2 Longitude 10	3-33-51.4 NAD 1927 □ 1983 □
Surface Owner: Federal [] State [] Private [] Indian []	induce <u></u> Dolighuee <u></u>	
	Relow-grade tank	
Type: Drilling 🕅 Production 🗂 Disposal 🗍	Volume: bb) Type of fluid:	
Workover C Freetbency	Construction material:	
	Double-walled with leak detection? Yes	I If not explain why not
Liner type: Synthetic X Thickness 12 mil Clay		
Pit Volume bbl		
	Lors than 50 feet	
Depth to ground water (vertical distance from bottom of pit to sease	onal 50 fast or more but less them 100 fast	
high water elevation of ground water.) GW = 48'	100 feet or more	(10 points)
		(0 points)
Wellhead protection area: (Less than 200 feet from a private dome	stic Yes	(20 points)
water source, or less than 1000 feet from all other water sources)	No	(0 points) XXX
	Less than 200 feat	(20 points)
Distance to surface water: (horizontal distance to all wetlands, play	yas, 200 feet or more but less than 1000 feet	(10 points)
irrigation canals, ditches, and perennial and ephemeral watercourse	s.) 1000 feet or more	
		i 741 mainta
	Ranking Score (Total Points)	
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Elke Environmental, Inc.

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

February 25, 2008

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

> Re: Pride Energy – Inbe 13 #1 UL 'G' Sec. 13 T11S R33E Lea County, NM API # 30-025-37840

Mr. Chris Williams,

Elke Environmental was contracted by Pride Energy to complete the closure of the Inbe 13 #1 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 31' where the samples did not 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 4' 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



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

Field Analytical Report Form

Client Pride Energy Analyst Jason Jessup

Site Inbe 13 #1

	Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
	TP1	12-31-07	10'		11,413		33° 22' 04.1" N
	·····	1.2.00	1.62		1 220		<u> </u>
	111	1-2-08	15		1,330		<u>103° 33' 51.1" W</u>
	TP1	1-2-08	20'		741		33° 22' 04.1" N 103° 33' 51 1" W
		1000					<u>33° 22' 04.1" N</u>
	111	1-2-08	25		985		103° 33' 51.1" W
	ፐව1	1-2-08	30'		264	173	33° 22' 04.1" N
		1-2-00				17.5	<u>103° 33' 51.1" W</u>
	TP2	12-31-07	10'		7 331		33° 22' 04.3" N
		12 51 67			7,551		<u>103° 33' 51.0" W</u>
I	TP2	1-2-08	13'		1.507		33° 22' 04.3" N
							<u>103° 33' 51.0" W</u>
	TP2	1-2-08	16'		668	}	33° 22° 04.3" N
					ļ		<u>103° 33° 51.0" W</u>
	TP2	1-2-08	22'		613		33° 22' 04.3" N
					<u> </u>	<u> </u>	103° 33' 51.0" W
	TP2	1-2-08	25'		791		33 22 04.3 IN
							<u>103° 33° 51.0° W</u>
	TP2	1-2-08	28'		591		103° 33' 51.0" W
[1.0.09	217		0.57	0.1	33° 22' 04.3" N
	IP2	1-2-08	31		257	8.1	103° 33' 51.0" W
	TD2	12.31.07	10'		7 580		33° 22' 03.8" N
	11.5	12-51-07	10		7,580		103° 33' 50.4" W
	ТРЗ	1-2-08	15'		4 104		33° 22' 03.8" N
	11 <i>5</i>	1-2-00	15		4,104		<u>103° 33' 50.4" W</u>
	ТРЗ	1-2-08	20'		3 594		33° 22' 03.8" N
		1200	20		5,574		<u>103° 33' 50.4" W</u>
	ТРЗ	1-2-08	25'		3 3 7 3		33° 22' 03.8" N
	·····	1200	2.5		5,575		<u>103° 33' 50.4" W</u>
	TP3	1-2-08	30'		409	47	33° 22' 03.8" N
	<u> </u>					-T./	103° 33' 50.4" W
W	TP4	12-31-07	10'		5 375		33° 22' 04.2" N
					5,575		103° 33' 50.2" W

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

Field Analytical Report Form

Client Pride Energy Analyst Jason Jessup

Site Inbe 13 #1

	Sample ID	Date	Depth	TPH / PPM	Cl/PPM	PID / PPM	GPS
	TP4	1-2-08	15'		2,957		33° 22' 04.2" N 103° 33' 50.2" W
	TP4	1-2-08	20'	- <u> </u>	1,231		33° 22' 04.2" N 103° 33' 50 2" W
	TP4	1-2-08	25'		1,091		33° 22' 04.2" N 103° 33' 50 2" W
	TP4	1-2-08	30'		234	9.3	33° 22' 04.2" N 103° 33' 50 2" W
	TP5	12-31-07	10'		13,626		33° 22' 04.1" N
<u>(</u>	TP5	1-2-08	15'		7,976		33° 22' 04.1" N 103° 33' 50 6" W
		1-2-08	20'		8,852		33° 22' 04.1" N 103° 33' 50 6" W
	TP5	1-2-08	25'		6,301		33° 22' 04.1" N 103° 33' 50 6" W
	TP5	1-2-08	30'		1,118	51.5	33° 22' 04.1" N 103° 33' 50.6" W
	Background	1-2-08	Surface		268		



Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Monitor Well Report Form

	1
ļ	e Energy
•	t Pride
	Client

Date 1-28-08

Site Inbe 13 #1

Time	12:43pm						
Gallons of Water Purged	11.0						4
Gallons of Water to Purge	11.0						
Feet of Water	22.5'						
Total Depth of Well	52.2'						
Depth of Water	29.7'						
Monitor Well ID	MW-1						

Notes Sampled for TPH 8015M and Chloride

Signature

Analytical Report 295419

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Pride Energy

10-JAN-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215

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

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

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

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10-JAN-08



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

Reference: XENCO Report No: 295419 Pride Energy Project Address: Inbe 13 #1

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 295419. 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. 295419 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 295419

Elke Environmental, Inc., Odessa, TX

Pride Energy

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP1@30'	S	Jan-02-08 08:28	30' ft	295419-001
TP2@31'	S	Jan-02-08 09:14	31' ft	295419-002
TP3@30'	S	Jan-02-08 15:01	30' ft	295419-003
TP4@30'	S	Jan-02-08 10:10	30' ft	295419-004
TP5@30'	S	Jan-02-08 12:45	30' ft	295419-005

F NVIRONMENTAL BELT	LABOR CONTRACT	Ø

Contact: Logan Anderson

Project Id:

Certificate of Ana is Summary 295419 Elke Environme....d, Inc., Odessa, TX

Project Name: Pride Energy

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

Report Date: 10-JAN-08

nt.rto. Taba 12 #1					keport Date:	20-NAL-US	
					Project Manager:	Brent Barron, II	
	Lab Id:	295419-001	295419-002	295419-003	295419-004	295419-005	
- -	Field Id:	TP1@30'	TP2@31'	TP3@30'	TP4@30'	TP5@30'	
Analysis Kequestea	Depth:	30' A	31' ft	30' A	30' A	30' ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Jan-02-08 08:28	Jan-02-08 09:14	Jan-02-08 15:01	Jan-02-08 10:10	Jan-02-08 12:45	
Percent Moisture	Extracted:						
	Analyzed:	Jan-07-08 17:30	Jan-07-08 17:30	Jan-07-08 17:30	Jan-07-08 17:30	Jan-07-08 17:30	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		20.3	8.31	15.5	16.7	19.4	
TDH h. CW2015 Mad	Extracted:	Jan-07-08 14:55	Jan-07-08 14:55	Jan-07-08 14:55	Jan-07-08 14:55	Jan-07-08 14:55	
now crooks for the	Analyzed:	Jan-08-08 14:59	Jan-08-08 15:26	Jan-08-08 15:54	Jan-08-08 16:21	Jan-08-08 16:49	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons	-	ND 18.8	ND 16.4	7.71 QN	ND 18.0	ND 18.6	
C12-C28 Diesel Range Hydrocarbons		ND 18.8	84.9 16.4	ND 17.7	18.9 18.0	19.5 18.6	
C28-C35 Oil Range Hydrocarbons		ND 18.8	39.1 16.4	7.71 GN	ND 18.0	ND 18.6	
Total TPH		£	124	Ð	18.9	19.5	
Total Chloride hv FPA 3753	Extracted:						
	Analyzed:	Jan-07-08 09:10	Jan-07-08 09:10	Jan-07-08 09:10	Jan-07-08 09:10	Jan-07-08 09:10	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		255 5.00	85.1 5.00	425 5.00	213 5.00	1400 5.00	

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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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6017 Financial Dr., Norcross, GA 30071	(770) 449-8800	(770) 449-5477





Form 2 - Surrogate Recoveries



Project Name: Pride Energy

Lab Batch #: 711871 Sample: 295419-001 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Annunt [A] Recover Signature (A) Plags (B) Plags (B) Plags (B) 1-Cilorooctane 112 100 112 70-135 - 0-Terphenyl 59.7 50.0 112 70-135 - Lab Batch #: 711871 Sample: 295419-002 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY Control (A) Plags Plags 1-Chlorooctane 89.4 100 89 70-135 - - 1-Chlorooctane 89.1 100 89 70-135 -	Vork Order #: 295419		Project ID):					
Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Anaant Found [A] Tree Annant [B] Tree Annalytes Control Annalytes Plags 1-Chlorooctane 112 100 112 70-135 - 0-Torphenyl 59.7 50.0 119 70-135 - 1-Chlorooctane 112 100 112 70-135 - 1-Chlorooctane 59.7 50.0 119 70-135 - 1-State #: 711871 Sample: 295419-002 / SMP Batch: 1 Matrix: Soil - TPH by SW8015 Mod Annoant [A] [B] Recovery % R Control Limits Flags 1-Chlorooctane 89.4 100 89 70-135 - 1-State #: 711871 Sample: 295419-003 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE Recovery found Flags % R 1-Chlorooctane [8]1 100 89 70-135 -	Lab Batch #: 711871 Sample: 295419-001 / SME	AP Batch: 1 Matrix: Soil							
TPH by SW8015 Mod Analytes Amount [A] True Amount [A] True Amount [B] Recovery %R Control Listis %R Page %R 1-Chlorooctane 112 100 112 70-135 70-135 0-Terphenyl 59,7 50.0 119 70-135 70-135 Lab Batch #: 711871 Sample: 295419-002 / SMP Batch: 1 Matrix: Soil 100 TPH by SW8015 Mod Analytes Amount [B] True Amount [B] Manuant [B] Recovery %R Control Limits Flags 1-Chlorooctane 89,4 100 89 70-135 100	Units: mg/kg	SU	RROGATE RE	COVERY S	STUDY				
1-Chlorooctane 112 100 112 70-135 o-Terphenyl 59.7 50.0 119 70-135 Lab Batch #: 711871 Sample: 295419-002 / SMP Batch: 1 Matrix: Soil TPH by SW8015 Mod Amount [A] Tree Amount [A] Tree Amount [B] Recovery (PR) Control Limits (PR) Plags 1-Chlorooctane 89.4 100 89 70-135 Plags 0-Terphenyl 47.5 50.0 95 70-135 1-Chlorooctane 89.4 100 89 70-135 0-Terphenyl 47.5 50.0 95 70-135 Lab Batch #: 711871 Sample: 295419-003 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY Control Limits Flags Flags 1-Chlorooctane 89.1 100 89 70-135 Flags 1-Chlorooctane 89.1 100 89 70-135 Flags 1-Chlorooctane 89.1 100 89 70-135 <th>TPH by SW8015 Mod Analytes</th> <th>Amount Found [A]</th> <th>True Amount [B]</th> <th>Recovery %R [D]</th> <th>Control Limits %R</th> <th>Flags</th>	TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
o-Terphenyl 59.7 50.0 119 70-135 Lab Batch #: 711871 Sample: 295419-002 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY Analytes Analytes True (A) True (B) Recovery (B) Control (B) Fings 1-Chlorooctane 89.4 100 89 70-135 Fings	1-Chlorooctane	112	100	112	70-135				
Lab Batch #: 711871 Sample: 295419-002 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount Found [A] True Found [A] Recovery [B] Control Limits %R Flags 1-Chlorooctane 89.4 100 89 70-135 - o-Terphonyl 47.5 50.0 95 70-135 - Lab Batch #: 711871 Sample: 295419-003 / SMP Batch: 1 Matrix: Soil - Units: mg/kg SURROGATE RECOVERY STUDY - <td>o-Terphenyl</td> <td>59.7</td> <td>50.0</td> <td>119</td> <td>70-135</td> <td></td>	o-Terphenyl	59.7	50.0	119	70-135				
Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount Found [A] True Amount [B] Recovery % R Control Limits % R Flags 1-Chlorooctane 89.4 100 89 70-135 - 1-Chlorooctane 89.4 100 89 70-135 - 0-Terphenyl 47.5 50.0 95 70-135 - Lab Batch #: 711871 Sample: 295419-003 / SMP Batch: 1 Matrix: Soil - Units: mg/kg SURROGATE RECOVERY STUDY - Control Limits Flags Analytes Surge Study SURROGATE RECOVERY STUDY - - 1-Chlorooctane 89.1 100 89 70-135 - 1-Chlorooctane 89.1 100 89 70-135 - 1-Chlorooctane 89.1 100 89 70-135 - Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil - Units: mg/kg SURROGATE RECOVERY STUDY - - -	Lab Batch #: 711871 Sample: 295419-002 / SMI	e Bat	ch: 1 Matri	x: Soil					
TPH by SW8015 Mod Amount Found [A] True Amount [B] Recovery %R [D] Control Linits %R [D] Flags 1-Chlorooctane 89.4 100 89 70.135 - 0-Terphenyl 47.5 50.0 95 70.135 - Lab Batch #: 711871 Sample: 295419-003 / SMP Batch: 1 Matrix: Soil - TPH by SW8015 Mod Amount [A] True Recovery (Analytes Control Matrix: Soil Flags 1-Chlorooctane 89.1 100 89 70.135 - 1-Chlorooctane 102 SURROGATE RECOVERY STUDY - - Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil - Units: mg/kg SURROGATE RECOVERY STUDY - - - - 1-Chlorooctane <td>Units: mg/kg</td> <td>SU</td> <td>RROGATE RE</td> <td>COVERY S</td> <td>STUDY</td> <td></td>	Units: mg/kg	SU	RROGATE RE	COVERY S	STUDY				
1-Chlorooctane 89.4 100 89 70-135 o-Terphenyl 47.5 50.0 95 70-135 Lab Batch #: 711871 Sample: 295419-003 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY Control Limits Flags Analytes Analytes 100 89 70-135 Flags 1-Chlorooctane 89.1 100 89 70-135 Flags 1-Chlorooctane 89.1 100 89 70-135 Flags units: mg/kg Sumple: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg Sumple: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg Sumple: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg Sumple: 295419-005 / SMP Batch: 1 Matrix: Soil	TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
o-Terphenyl 47.5 50.0 95 70-135 Lab Batch #: 711871 Sample: 295419-003 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount [A] True [B] Matrix: Soil I-Chlorooctane 89.1 100 89 70-135 0-Terphenyl 48.1 50.0 96 70-135 1-Chlorooctane 89.1 100 89 70-135 0-Terphenyl 48.1 50.0 96 70-135 Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE Recovery STUDY Control Matrix: Flags Matrix: mg/kg SURROGATE Recovery STUDY Control Matrix: Flags Inits: mg/kg Sumple: 295419-005 / SMP Batch: 1 Matrix: Soil I-Chlorooctane 100 100 100 70-135 100	1-Chlorooctane	89.4	100	89	70-135				
Lab Batch #: 711871 Sample: 295419-003 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount Found [A] True (B] Control Amount (B] Limits %R Flags 1-Chlorooctane 89.1 100 89 70-135 - 0-Terphenyl 48.1 50.0 96 70-135 - Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil - Units: mg/kg SurROGATE RECOVERY STUDY Control Limits Flags 0-Terphenyl 48.1 50.0 96 70-135 - Units: mg/kg SurROGATE RECOVERY STUDY Control Limits Flags Maneut Flags Matrix: Soil - Control Limits Flags Matrix: Batch: 1 Matrix: Soil Flags 1-Chlorooctane 100 102 70-135 - 1-Chloroo	o-Terphenyl	47.5	50.0	95	70-135				
Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount [A] True [B] Recovery %R Control Limits %R Flags 1-Chlorooctane 89.1 100 89 70-135 - o-Terphenyl 48.1 50.0 96 70-135 - Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY - <td< th=""><th>Lab Batch #: 711871 Sample: 295419-003 / SMI</th><th>e Ba</th><th>tch: 1 Matri</th><th>x: Soil</th><th><u> </u></th><th></th></td<>	Lab Batch #: 711871 Sample: 295419-003 / SMI	e Ba	tch: 1 Matri	x: Soil	<u> </u>				
TPH by SW8015 Mod Amount Found [A] True Amount [B] True Amount [B] Recovery %R [D] Control Limits %R [D] Flags 1-Chlorooctane 89.1 100 89 70-135 - o-Terphenyi 48.1 50.0 96 70-135 - Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg SurROGATE RECOVERY STUDY Flags - TPH by SW8015 Mod Amount [A] True Amount [A] True Amount [B] Recovery %R [D] Control Limits %R Flags 1-Chlorooctane 102 100 102 70-135 - o-Terphenyi 55.2 50.0 110 70-135 - Lab Batch #: 711871 Sample: 295419-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE ECOVERY STUDY - - - - - - - - - - - <td>Units: mg/kg</td> <td colspan="6">SURROGATE RECOVERY STUDY</td>	Units: mg/kg	SURROGATE RECOVERY STUDY							
Analytes [D] 1-Chlorooctane 89.1 100 89 70-135 o-Terphenyl 48.1 50.0 96 70-135 Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount Found [A] True [B] Recovery %R [D] Flags 1-Chlorooctane 102 100 102 70-135 o-Terphenyl 55.2 50.0 110 70-135 Lab Batch #: 711871 Sample: 295419-005 / SMP Batch: 1 Matrix: Soil Lab Batch #: 711871 Sample: 295419-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY True (A) True %R Flags TPH by SW8015 Mod Amount [A] True %R Recovery [D] Limits %R Flags 1-Chlorooctane 88.4 100 88 70-135 - 0-Terphenyl 48.2 50.0 96 70.135	TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
1-Chlorooctane 89.1 100 89 70-135 o-Terphenyl 48.1 50.0 96 70-135 Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg Sumount True Recovery Control Flags Analytes 102 100 102 70-135 Flags Flags 1-Chlorooctane 102 100 102 70-135 Flags 0-Terphenyl 55.2 50.0 110 70-135 Flags Lab Batch #: 711871 Sample: 295419-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY To-135 Iono Ionoo	Analytes			[D]					
o-Terphenyl 48.1 50.0 96 70-135 Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg SurROGATE RECOVERY STUDY Flags Control Limits Flags Analytes 102 100 102 70-135 Flags %R Plags %R Flags 1-Chlorooctane 102 100 102 70-135 -<	1-Chlorooctane	89.1	100	89	70-135				
Lab Batch #: 711871 Sample: 295419-004 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount Found [A] True [B] Recovery %R [D] Control Limits %R Flags 1-Chlorooctane 102 100 102 70-135 - 0-Terphenyl 55.2 50.0 110 70-135 - Lab Batch #: 711871 Sample: 295419-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg Sample: 295419-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg SurrOGATE RECOVERY STUDY - <td>o-Terphenyl</td> <td>48.1</td> <td>50.0</td> <td>96</td> <td>70-135</td> <td></td>	o-Terphenyl	48.1	50.0	96	70-135				
TPH by SW8015 Mod Amount [A] True [B] Recovery %R [D] Control Limits %R Flags 1-Chlorooctane 102 100 102 70-135 o-Terphenyl 55.2 50.0 110 70-135 Lab Batch #: 711871 Sample: 295419-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount [A] True Found [A] Control III TPH by SW8015 Mod Amount [A] Flags 1-Chlorooctane 88.4 100 88 0-Terphenyl 50.0 96 70.135	Lab Batch #: 711871 Sample: 295419-004 / SM Units: mg/kg	P Ba	tch: 1 Matri	ix: Soil	STUDY				
TPH by SW8015 ModAmount Found [A]Irtle Amount [B]Control Limits %R [D]Flags1-Chlorooctane10210010270-135o-Terphenyl55.250.011070-135Lab Batch #: 711871Sample: 295419-005 / SMPBatch:1Matrix: SoilUnits: mg/kgSURROGATE RECOVERY STUDYTPH by SW8015 ModAmount Found [A]True Recovery [B]Control Limits %R [D]1-Chlorooctane88.41008870-1351-Chlorooctane88.41008870-135						F			
1-Chlorooctane 102 100 102 70-135 o-Terphenyl 55.2 50.0 110 70-135 Lab Batch #: 711871 Sample: 295419-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY Flags Flags Flags Flags Flags %R Flags Flags Plags Flags Flags Start Flags <	TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
o-Terphenyl 55.2 50.0 110 70-135 Lab Batch #: 711871 Sample: 295419-005 / SMP Batch: 1 Matrix: Soil Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount [A] True [B] Recovery %R Control Limits Flags 1-Chlorooctane 88.4 100 88 70-135	1-Chlorooctane	102	100	102	70-135				
Lab Batch #: 711871 Sample: 295419-005 / SMP Batch: 1 Matrix: 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 88.4 100 88 70-135 o-Terphenyl 48.2 50.0 96 70.135	o-Terphenyl	55.2	50.0	110	70-135				
Units: mg/kg SURROGATE RECOVERY STUDY TPH by SW8015 Mod Amount Found [A] True Amount [B] Recovery %R [D] Control Limits %R Analytes 88.4 100 88 70-135 1-Chlorooctane 88.4 100 88 70-135	Lab Batch #: 711871 Sample: 295419-005 / SM	P Ba	tch: 1 Matri	ix: Soil					
TPH by SW8015 ModAmount Found [A]True Amount [B]Control Limits %RFlags1-Chlorooctane88.41008870-135o-Terphenyl48.250.09670.135	Units: mg/kg	SU	RROGATE RI	COVERY	STUDY				
I-Chlorooctane 88.4 100 88 70-135 o-Terphenyl 48.2 50.0 96 70.135	TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
0-Terphenyl 48.2 50.0 06 70.135	1-Chlorooctane	88 /	100	 	70 135	<u> </u>			
	o-Terphenyl	48.2	50.0	00 Q6	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.



Form 2 - Surrogate Recoveries



Project Name: Pride Energy

Vork Order #: 295419		Project II):						
Lab Batch #: 711871 Sample: 295420-001	S/MS Bate	MS Batch: 1 Matrix: 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	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	SUI	RROGATE RI	ECOVERY S	STUDY					
TPH by SW8015 Mod Analytes	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-BJ	KS/BKS Bat	ch: 1 Matri	ix: Solid						
Units: mg/kg	SU	STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes	07.(100							
o Tembenul	87.0	100	88	70-135	. <u> </u>				
	42.5	50.0	83	/0-133	l				
Lab Batch #: 711871 Sample: 503175-1-B	LK / 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-B	SD/BSD Ba	tch: ¹ Matr	ix: Solid						
Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[ען		1				
Analytes 1-Chlorooctane	100	100	100	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.





Ø

Project Name: Pride Energy

√ork Order #: 295419	Project ID:							
Lab Batch #: 711552	Sample: 711552	-1-BKS	Matr	ix: Solid				
Date Analyzed: 01/07/2008	Date Prepared: 01/07/2	008	Analy	st: IRO				
Reporting Units: mg/kg	Batch #: 1	BLANK /	BLANK SPI	KE REC	COVERY S	STUDY		
Total Chloride by EPA 325.3	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags		
Analytes	[A]	[B]	Result [C]	[D]	%R			
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



STATISTICS OF

Project Name: Pride Energy

Work Order #: 295419 Analyst: SHE		ä	ate Prepar	ed: 01/07/200	8			Proj Date Ai	ect ID: nalyzed: 0	1/08/2008	
Lab Batch ID: 711871	Sample: 503175-1-B	KS	Batcl	h#: 1					Matrix: S	olid	
Units: mg/kg			BLAN	K /BLANK S	SPIKE / B	LANK S	PIKE DUPL	ICATE I	RECOVE	RY STUD	К
TPH by SW80	15 Mod	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits
Analytes		[¥]	B	Result [C]	8% [0]	(3)	Duplicate Result [F]	<u>ی</u> %	%	%oK	WARD
C6-C12 Gasoline Range Hydroci	arbons	£	1000	902	96	1000	1020	102	12	70-135	35

Flag

35

70-135

12

93

930

1000

96 83

902 826

1000 1000

£ £

C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons 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

O NEXT	Fo	rm 3	/ N	ISD]	Reco	veries		-		10 M 4000	
laboratories	Proj	ect Nan	ae: Pride E	nergy							<u> </u>
Work Order #: 295419						Project D	ä				
Lab Batch ID: 711871 Date Analyzed: 01/08/2008	QC- Sample ID Date Prepared	: 295420 : 01/07/2	-001 S 008	Ва Ап	tch #: alyst:	1 Matri SHE	x: Soil				
Reporting Units: mg/kg		M	ATRIX SPIK	E / MAT	RIX SPI	XE DUPLICA	TE RECO	DVERY 	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 Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	Ð	1050	1020	97	1050	1030	86	-	70-135	35	
C12-C28 Diesel Range Hydrocarbons	Ð	1050	948	90	1050	948	90	0	70-135	35	
Lab Batch ID: 711552 Date Analyzed: 01/07/2008	QC- Sample ID Date Prepared	295419.	-001 S 008	Ba An	tch #: alyst:]	l Matrij RO	k: Soil				
Reporting Units: mg/kg		M	ATRIX SPIK	E / MAT	RIX SPII	CE DUPLICA	TE RECO	DVERY S	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	255	1000	1230	98	1000	1230	98	0	75-125	30	

100

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

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

Page 10 of 13



Sample Duplicate Recovery



Project Name: Pride Energy

Work Order #: 295419

Lab Batch #: 711555	Project ID:
Date Analyzed: 01/07/2008	Date Prepared: 01/07/2008 Analyst: JLG
QC- Sample ID: 295419-001 D	Batch #: 1 Matrix: Soil
Reporting Units: %	SAMPLE / SAMPLE DUPLICATE RECOVERY
Percent Moisture	Parent Sample Sample Control Result Duplicate RPD Limits Flag [A] Result %RPD
Analyte	(B)
Percent Moisture	20.3 19.1 6 20

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


Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In



Sample Receipt Checklist

				C	ilent Initials
#1	Temperature of container/ cooler?	Yes	No	5.0 °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?	A Second	No		
#6	Sample instructions complete of Chain of Custody?	Ales_	No		
#7	Chain of Custody signed when relinquished/ received?	Kes	No		
#8	Chain of Custody agrees with sample label(s)?	(as	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Res	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(res	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	Ves	No	See Below	
#13	Samples properly preserved?	A ∕res	No	See Below	
#14	Sample bottles intact?	Fes	No		
#15	Preservations documented on Chain of Custody?	res	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#16	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	(Nô)	Not Applicable	W/A

Variance Documentation

Date/ Time:

Contacted by:

Contact:

Regarding:

Corrective Action Taken:

AF 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

Page 13 of 13

Analytical Report 296653

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Pride Energy

01-FEB-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

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01-FEB-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: 296653 Pride Energy Project Address: Inbe 13 # 1

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 296653. 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. 296653 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.

Brent Barron, II Odessa Laboratory Manager

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E WIRCONNEWTAL B.	Project Id:
8. N	

Contact: Logan Anderson

Certificate of Ar Sis Summary 296653 Elke Environmental, Inc., Odessa, TX **Project Name: Pride Energy**

Date Received in Lab: Mon. Jan-28-08 04:46 pm Report Date: 01-FEB-08

Project Location: Inbe 13 # 1			Report Date: 01-FED-00 Project Manager: Brent Barron, II
	Lab Id:	296653-001	
	Field Id:	MW-1	
Analysis kequesiea	Depth:	29.7-52.2	
	Matrix:	WATER	
	Sampled:	Jan-28-08 12:46	
TPH by SW8015 MOD	Extracted:	Jan-29-08 11:02	
	Analyzed:	Jan-29-08 13:08	
	Units/RL:	mg/L RL	
C6-C12 Gasoline Range Hydrocarbons		ND 2.50	
C12-C28 Diesel Range Hydrocarbons		ND 2.50	
C28-C35 Oil Range Hydrocarbons		ND 2.50	
Total TPH		Q	
Total Chloride by RPA 325.3	Extracted:		
	Analyzed:	Jan-31-08 14:45	
	Units/RL:	mg/L RL	
Chloride		95.7 5.00	

This analytical report, and the entire data package il represents, has been mude for your exclusive and confidential use. In interpretable sould sepressed harougnot this analytical roport reports the best loggmend of XENCO Laboratorias. XENCO Experiments assumes no repressed harougn of makes no warranty to the end use of the data hereby presented. Our fisbility is limited to the amount invoiced for this work order unless otherwise agreed to in writing. Since 1990

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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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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



Form 2 - Surrogate Recoveries

Project Name: Pride Energy

ork Order #:	296653		Project II):		
Lab Batch #:	713275 Sample: 296653-001	/ SMP Bate	h: 1 Matrix	: Water		
Units:	mg/L	SUI	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		7.48	10.0	75	70-135	
o-Terphenyl		4.61	5.00	92	70-135	
Lab Batch #:	713275 Sample: 503924-1-E	3KS / BKS Bate	ch: 1 Matri	x: Water	· · · · · · · · · · · · · · · · · · ·	
Units:	mg/L	SUI	RROGATE RI	ECOVERY	STUDY	
	TPH by SW8015 MOD Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits %R	Flags
1-Chlorooctane		8.83	10.0	88	70-135	• • • •
o-Terphenyl		5.23	5.00	105	70-135	
Lab Batch #:	713275 Sample: 503924-1-I	BLK / BLK Bate	ch: 1 Matri	x: Water		
Units:	mg/L	SUI	RROGATE RI	ECOVERY	STUDY	
	TPH by SW8015 MOD	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1 Chloropatana	Analytes		10.0	[10]		
1-Chlorooctane		I X X I	10.0	1 82	70-135	
o. Tembenyl		4.04	5.00	00	70 125	
o-Terphenyl		4.94	5.00	99	70-135	
o-Terphenyl Lab Batch #: Units:	713275 Sample: 503924-1-1 mg/L	4.94 BSD / BSD Bate	5.00 ch: 1 Matri	99 x: Water ECOVERY	70-135 STUDY	
o-Terphenyl Lab Batch #: Units:	713275 Sample: 503924-1-1 mg/L TPH by SW8015 MOD Analytes	Amount Found [A]	5.00 ch: 1 Matri RROGATE RI True Amount [B]	99 x: Water ECOVERY Recovery %R [D]	70-135 STUDY Control Limits %R	Flags
o-Terphenyl Lab Batch #: Units: 1-Chlorooctane	713275 Sample: 503924-1-1 mg/L TPH by SW8015 MOD Analytes	Amount Found [A] 8.71	5.00 ch: 1 Matri RROGATE R True Amount [B] 10.0	99 x: Water ECOVERY %R [D] 87	70-135 STUDY Control Limits % R	Flags

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

*** Poor recoveries due to dilution

Version: 1.006

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



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Project Name: Pride Energy

Work Order #: 2	96653		P	roject ID:			
Lab Batch #:	713465	Sample: 713465	-1-BKS	Matri	x: Water		
Date Analyzed:	01/31/2008	Date Prepared: 01/31/2	008	Analys	it: IRO		
Reporting Units:	mg/L	Batch #: 1	BLANK /	BLANK SPI	KE REC	COVERY	STUDY
Total Chloride by EPA 325.3		Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
	Analytes	[A]	[B]	[C]	% R [D]	%R	
Chloride		ŇD	50.0	46.8	94	80-120	

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



Version: 1.006

N H	
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MA	

BS / BSD Recoveries

(ji)

Project Name: Pride Energy

Work Order #: 296653 Analyst: SHE	Dai	te Prepare	d: 01/29/200	8			Pro Date An	ject ID: ialyzed: 0	1/29/2008	
Lab Batch ID: 713275 Sample: 503924-1-1	BKS	Batch	1#: 1					Matrix: V	v alcı	
Units: mg/L		BLAN	K /BLANK S	SPIKE / B	LANK S	PIKE DUPI	ICATE	RECOVI	ERY STUD	≿ [
TPH by SW8015 MOD	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk		Control	0.
	Sample Result [A]	Added	Spike Result	Spike %R	Added	Spike Duplicate	Dup. %R	kru %	Summer Sector	
Analytes		[8]		ē	[E]	Result [F]	[C]			
C6-C12 Gasoline Range Hydrocarbons	Ð	100	85.5	86	100	85.3	85	0	70-135	
C12-C28 Diesel Range Hydrocarbons	£	100	103	103	100	102	102	-	70-135	

Flag

Control Limits %RPD

52 3

100

E

C12-C28 Diesel Range Hydrocarbons

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 - .//S / MSD Recoveries

Project Name: Pride Energy

Project ID:

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Matrix: Water ---IRO Analyst: Batch #: QC-Sample ID: 296653-001 S 01/31/2008 Date Prepared: Date Analyzed: 01/31/2008 Lab Batch ID: 713465 Work Order # 296653 Reporting Units: mg/L

					Ī						
Total Chloride by EPA 325.3	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample Decute (FT	Spiked Dup. % R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	Added [B]	<u>5</u>	ē	E]	wesur [r]	5	2			
Chloride	95.7	100	596	500	100	606	510	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 = Bstirnated Quantitation Limit

Version: 1.006



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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In



Sample Receipt Checklist

¥1	Temperature of container/ cooler?	(Yes)	No	6.0 °C	
12	Shipping container in good condition?	(eg)	No		
#3	Custody Seals intact on shipping container/ cooler?	(es/	No	Not Present	
# 4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
ł5	Chain of Custody present?	1 Cer	No		
# 6	Sample instructions complete of Chain of Custody?	Yes	No		
ŧ7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Tes	No	ID written on Cont./ Lid	
¥9	Container label(s) legible and intact?	Yes	No	Not Applicable	
ŧ10	Sample matrix/ properties agree with Chain of Custody?	e	No		
#11	Containers supplied by ELOT?	Vez	No]	
¥12	Samples in proper container/ bottle?	Yes?	No	See Below	
#13	Samples properly preserved?	Yes	(No.	See Below	
#14	Sample bottles intact?	Ves	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		<u> </u>
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	1
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	1

Variance Documentation

Contacted by: Brent Contact: Logan

Date/ Time: 128.08

Regarding: #13 All samples are preserved w/HCI, can not run c/ because we do not have any sample unpreserved.

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

	St Energy Mi	ate of New Mexico nerals and Natural Resources	Form C-144 June 1, 2004
District III 1000 Rio Brazos Road, Aztec, NM 87410	Oil (Conservation Division Fo	r drilling and production facilities, submit to propriate NMOCD District Office 112
<u>District IV</u> 220 S. St. Francis Dr., Santa Fe, NM 87505	1220	South St. Francis Dr.	r downstream facilities, submit to Santa Fre
	Sa	anta Fe, NM 87505	
Pit or B	elow-Gra	de Tank Registration or Clo	osure (m and and
Is pit or bel Type of action: Regi	ow-grade tan stration of a pit c	k covered by a "general plan"? Yes be below-grade tank C Closure of a nit or below	w-grade tank X (P VEV ived
			Hobbs
Operator: Pride Energy Company	Telephone:	<u>918-524-9200</u> е-mail address: <u>la</u>	arrym@pride-energy.conf
Address: <u>P O Box 701950</u> Tulsa, OK 74170-1950		· · · · · · · · · · · · · · · · · · ·	Constant of the state of the st
Facility or well name: Inbe 13 #1	API #: _ <u>_30-02</u>	<u>25-37840</u> U/L or Qtr/Qtr <u>G</u>	Sec 13T 115 CC R 97796 C
County: <u>Lea</u>	Latitude _	<u>33-22-03.2</u> Longitude <u>103</u>	<u>-33-51.4</u> NAD: 1927 🗌 1983 🛄
Surface Owner: Federal [] State 🛛 Private [] Indian []			
		Below-grade tank	
<u>Fype:</u> Drilling [] Production [] Disposal []		Volume:bbl Type of fluid:	
Workover [] Emergency []		Construction material:	·
		Double-walled, with leak detection? Yes	If not, explain why not.
Liner type: Synthetic 🛛 Thickness <u>12</u> mil Clay 🗔			
Pit Volumebbl			
Depth to ground water (vertical distance from bottom of r	oit to seasonal	Less than 50 feet	(20 points) XXX
high water elevation of around water) $\mathbf{GW} = 48^{\circ}$		50 feet or more, but less than 100 feet	(10 points)
		100 feet or more	(0 points)
		Vec	(20 points)
Wellhead protection area: (Less than 200 feet from a priv	ate domestic	No	
water source, or less than 1000 feet from all other water s	ources.)		(U pours) AAA
Distance to surface water. (horizontal distance to all wet)	ands playes	Less than 200 feet	(20 points) ~
in canals, ditches, and perennial and enternal with	atercourses	200 feet or more, but less than 1000 feet	(10 points)
	4010001303.j	1000 feet or more	(0 points) XXX
		Ranking Score (Total Points)	20 points «
			Variation (Variation (Variation (Variation))) //
	showing the pit	s relationship to other equipment and darks. (2)	malcate disposal location. (check die onside otx-in
our are burying in place) onsite 🔯 offsite 🗋 if offsite, f	name of facility_		neral description of remedial action taken including
emediation start date and end date. (4) Groundwater enco	untered: No 🖾	Yes I If yes, show depth below ground surface	eft. and attach sample results. are and the
 Attach soil sample results and a diagram of sample loca 	tions and excava	ations.	<u></u>
Additional Comments: All excess drilling fluid will be re	emoved. A buria	al pit will be excavated and lined with a 20 mil lin	ner. The drilling mud will be mixed with Elkeens: All
Environmental Solidification Product at a 20(mud) to 1(p	roduct) ratio to s	solidify the mud then placed in the burial pit. Af	ter all mud is removed the pit bottoms will be sampled
		tine soil and contained to the summing dime area	A final report will be submitted after completion of
Per NMOCD guidelines. The drilling pit will be backfill	ed with clean hat	uve son and contoured to the surrounding area.	That report will be sublinded and completion by
Pet NMOCD guidelines. The drilling pit will be backfille The job.	ed with clean hat	ave son and concoured to the surrounding area.	
Pet NMOCD guidelines. The drilling pit will be backfill. The job.	ed with clean na	ave son and contoured to the surrounding area.	
Per NMOCD guidelines. The drilling pit will be backfille The job.	ed with clean hat	notice before testing	
Pet NMOCD guidelines. The drilling pit will be backfill. The job. NMOCD Hobbs will be given 48 hrs notice before start of	ed with clean hat	notice before testing.	
Per NMOCD guidelines. The drilling pit will be backfille The job. NMOCD Hobbs will be given 48 hrs notice before start of I hereby certify that the information above is true and con has been/will be constructed or closed according to N	of job and 48 hrs mplete to the bes MOCD guidelin	notice before testing. t of my knowledge and belief. I further certify les, a general permit, or an (attached) a	that the above-described pit or below-grade tank Jernative OCD-approved plan Z.
Per NMOCD guidelines. The drilling pit will be backfill. The job. NMOCD Hobbs will be given 48 hrs notice before start of I hereby certify that the information above is true and con has been/will be constructed or closed according to Ni Date: <u>12-10-07</u>	of job and 48 hrs mplete to the bes MOCD guidelin	notice before testing. t of my knowledge and belief. I further certify les [], a general permit [], or an (attached) a	that the above-described pit or below-grade tank lternative OCD-approved plan .
Per NMOCD guidelines. The drilling pit will be backfille The job. NMOCD Hobbs will be given 48 hrs notice before start of 1 hereby certify that the information above is true and con has been/will be constructed or closed according to NI Date: _12-10-07 Printed Name/Title _Logan Anderson - Agent	of job and 48 hrs mplete to the bes MOCD guidelin	notice before testing. t of my knowledge and belief. I further certify tes [], a general permit [], or an (attacked) a Signature	that the above-described pit or below-grade tank lief native OCD-approved plan .
Per NMOCD guidelines. The drilling pit will be backfill. The job. NMOCD Hobbs will be given 48 hrs notice before start of I hereby certify that the information above is true and con has been/will be constructed or closed according to NI Date: <u>12-10-07</u> Printed Name/Title <u>Logan Anderson - Agent</u> Your certification and NMOCD approval of this applicat otherwise endanger public health or the environment. No regulations.	of job and 48 hrs mplete to the bes MOCD guidelin ion/closure does or does it relieve	notice before testing. t of my knowledge and belief. I further certify tes [], a general permit [], or an (attacked) a 	that the above-described pit or below-grade tank liternative OCD-approved plan .
Per NMOCD guidelines. The drilling pit will be backfille The job. NMOCD Hobbs will be given 48 hrs notice before start of I hereby certify that the information above is true and con has been/will be constructed or closed according to NI Date: <u>12-10-07</u> Printed Name/Title <u>Logan Anderson - Agent</u> Your certification and NMOCD approval of this applicat otherwise endanger public health or the environment. No regulations.	of job and 48 hrs mplete to the bes MOCD guidelin ion/closure does or does it relieve	notice before testing. t of my knowledge and belief. I further certify tes.], a general permit], or an (attached) a Signature not relieve the operator of liability should the co the operator of its responsibility for compliance	that the above-described pit or below-grade tank that the above-described pit or below-grade tank ternative OCD-approved plan .
Per NMOCD guidelines. The drilling pit will be backfill. The job. NMOCD Hobbs will be given 48 hrs notice before start of I hereby certify that the information above is true and con has been/will be constructed or closed according to Ni Date: <u>12-10-07</u> Printed Name/Title <u>Logan Anderson - Agent</u> Your certification and NMOCD approval of this applicat otherwise endanger public health or the environment. No regulations.	of job and 48 hrs mplete to the bes MOCD guidelin ion/closure does or does it relieve	notice before testing. t of my knowledge and belief. I further ceptify tes [], a general permit [], or an (attacked) a Signature not relieve the operator of liability should the co the operator of its responsibility for compliance	that the above-described pit or below-grade tank that the above-described pit or below-grade tank thernative OCD-approved plan

1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 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

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

Form C-144

June 1, 2004

Pit or Below-Gra Is pit or below-grade tan Type of action: Registration of a pit o	de Tank Registration or Closur k covered by a "general plan"? Yes No below-grade tank Closure of a pit or below-grad	E Final Report			
Operator: <u>Pride Energy Company</u> Telephone: Address: <u>P O Box 701950</u> Tulsa, OK 74170-1950 Eacility or well name: Inbe 13 #1 API #: 30-025	<u>918-524-9200</u> e-mail address: <u>larrym</u>	@pride-energy.com			
County: Lea Latitude	33-22-03.2 Longitude 103-33-51	1.4 NAD: 1927 □ 1983 □			
Surface Owner: Federal [] State 🛛 Private [] Indian []					
Pit Below-grade tank Type: Drilling I production I Disposal I Volume:bbl Type of fluid: Workover I Emergency I Construction material:					
Lined 🖾 Unlined [_] Double-walled, with leak detection? Yes [_] if not, explain why not. Liner type: Synthetic 🖾 Thickness 12 mil Clay []					
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) Less than 50 feet (20 points) XXX 50 feet or more, but less than 100 feet (10 points) 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.)	Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)Yes(20 points)No(0 points) XXX				
Distance to surface water: (horizontal distance to all wetlands, playas, hion canals, ditches, and perennial and ephemeral watercourses.) Less than 200 feet 1000 feet or more, but less than 1000 feet 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' your are burying in place) onsite \square offsite \square If offsite, name of facility_remediation start date and end date. (4) Groundwater encountered: No \square	's relationship to other equipment and tanks. (2) Indic . (3) Attach a general of Yes I If yes, show depth below ground surface	ate disposal location: (check the onsite box if description of remedial action taken including ft. and attach sample results.			
Additional Comments: A burial nit was excepted and lined with a 20 mi	Lliner The drilling mud was mived with Elles Environ	nmental Solidification Product at a			
20(mud) to 1(product) ratio to colidify the mud then placed in the hurid	it. The buried pit was conned with a 20 mil in-	s liner After all mud was removed the sit			
bottoms were sampled Per NMOCD midelines. A vertical delineation was	a. The burnar pit was capped with a 20 mill impervious	males did not met NMOCD standards et a			
outonis were sampled rei www.b guidennes. A vertical defineation wa	s performed with a tracknoe and an auger drill fig. Sa	mpies and not met NWOCD standards at a			

depth of 31'. A monitor well was installed on the southeast corner of the drilling pit and sampled per NMOCD guidelines. The water sample met NMOCD standards. The

monitor well was plugged. The drilling pit was domed at 4' below ground surface and capped with a 20 mil impervious liner overlapping 3' in all directions. The site was

backfilled with clean native soil and contoured to the surrounding area then seeded with a seed mixture approved by the landowner.

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: _

Printed Name/Title

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.

oval:

Printed Name/Title

Signature

Appendix B Kimbrough-Lea Complex Soil Unit

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104

Appendix B

KU—Kimbrough-Lea complex

Map Unit Setting

- Elevation: 3,600 to 4,200 feet
- Mean annual precipitation: 12 to 15 inches
- Mean annual air temperature: 58 to 60 degrees F
- Frost-free period: 195 to 205 days

Map Unit Composition

- Kimbrough and similar soils: 50 percent
- Lea and similar soils: 30 percent

Description of Kimbrough

Setting

- Landform: Plains
- Landform position (three-dimensional): Rise
- Down-slope shape: Linear
- Across-slope shape: Linear
- Parent material: Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

Properties and qualities

- Slope: 0 to 3 percent
- Depth to restrictive feature: 4 to 20 inches to petrocalcic
- Drainage class: Well drained
- Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
- Depth to water table: More than 80 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Calcium carbonate, maximum content: 20 percent
- Gypsum, maximum content: 1 percent
- Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
- Sodium adsorption ratio, maximum: 2.0
- Available water capacity: Very low (about 0.8 inches)

Interpretive groups

• Land capability (nonirrigated): 7s

• Ecological site: Very Shallow (R077XD074NM)

Typical profile

- 0 to 6 inches: Gravelly loam
- 6 to 16 inches: Cemented material

Description of Lea

Setting

- Landform: Plains
- Landform position (three-dimensional): Rise
- Down-slope shape: Linear
- Across-slope shape: Linear
- Parent material: Loamy alluvium derived from sedimentary rock

Properties and qualities

- Slope: 0 to 3 percent
- Depth to restrictive feature: 20 to 40 inches to petrocalcic
- Drainage class: Well drained
- Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
- Depth to water table: More than 80 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Calcium carbonate, maximum content: 35 percent
- Gypsum, maximum content: 1 percent
- Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
- Sodium adsorption ratio, maximum: 2.0
- Available water capacity: Low (about 4.6 inches)

Interpretive groups

- Land capability classification (irrigated): 4e
- Land capability (nonirrigated): 4s
- Ecological site: Loamy (R077XD073NM)

Typical profile

- 0 to 10 inches: Loam
- 10 to 26 inches: Loam
- 26 to 36 inches: Cemented material



Appendix C MW Well Log

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104

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		NEW MEXICO O	FFICE OF WELL R	THE ECORD	STATE EN	GINEER			
1.OWN	IER OF WEL Name: Contact: Address:	L Pride Energy P.O. Box 701950			Worl Home	c Phone: Phone:			
	City:	Tulsa		North Maridan (1975) Maria (1975) - 144	Stat	e: <u>OK</u>	Zip:	74170	
2. LOC A.	CATION OF	WELL(A,B,C,or D re- 1/4 1/4	quired,E on Section:	F if <u>13</u>	known) Township:	11S	Range:	<u>33E</u>	N.M.P.M. County.
B.	X = 	feet, one in the Quad Map.	Y			Écot, N.	M. Coo	rdinat	e System Grant.
c.	Latitude:	33 d 22 m 0	4.0 3	Lon	gitudo: 10	1 <u>3</u> d ;	33	m <u>50</u>	<u>.5</u> 5
D.	East	(m), North		(m),	UTM Zone 1	3, NAD		(2'	1 or 83)
E.	Tract No.	, Map No.	of :	.he		F	lydrogr	aphic	Survey
F.	Lot No.	, Bieck No. Subd	of Un Ivision rec	sit/Tr porded	act ìn				of the County.
G.	Other:		·····						
н.	Give Stat	e Engineer File Num	ber if exi:	stina	well:				
ĩ.	Mer I general in		State of N	lew Me	xico				
3.DR	ILLING CO	NTRACTOR ar: WD-1456				u . X	n data Mili Air ∕		
	Nai	Ne: White Drilling Con	npany, Inc.		Wor	k Phone	: 325-	893-29	50
Mai	Age iling Addre	se: P.O. Box 906			Hon	ne Phone	: 325-	893-29	50
	Ci	ty: Clyde			303	te: <u>TX</u>		79510	
4. DF Dr Si Cc De	RILLING RE cilling bega ize of hole ompleted we opth to wate	CORD: INBE 13 We an: 01/22/08 ; C : 61/8 in.; Total ii is: shallow er upon completion of	ll #1 MW- ompleted: depth of v (sha of well: 26	1 01/22/ vell: allow, 3.40	08 ; Ty 50.0 f arteslan); f	ype tool c.; t.	s; <u>Air</u>	Rotary	/;

File Number: Form: wr-20

page 1 of 4

Trn Number:

Form provided by Forms On-A-Disk - 214-340-9429 - FormsOnADisk.com

File Number:

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: INBE 13 Well #1 MW-1

Depth	in Feet	Thickness	Description of	Estimated Yield
From	To	in feer	water-bearing formution	(GPM)
26.40	50.0	23.6	Reddish brown sandy clay	
		Jacob and an and a second seco		
		And and a second s		
*********		 And a second seco		

6. RECORD OF CASING

Diameter	Pounds	Threads	Depth	in Fect	Length	Type of Shoe	Perfora	ations
(inches)	per ft.	per in.	(rop	Bottom	(feet)		From	То
2.0	Sch. 40	4.0	0.0	30.0	30.0			
2.0	.020	4.0	30.0	50.0	20.0		30.0	50.0
		And a second sec						

and a state of the state of the

7. RECORD OF MUDDING AND CEMENTING

Depth	in Feet	Hole	Sacks	Cubic Feet	Method of Placement
From	Τo	Diameter	of mud	of Cement	
50.0	28.0	6 1/8	10.0		8/16 sand.
28.0	10.0	6 1/8	3.0		Bentonite Pellets
10.0	0.0	6 1/8	10.0	1.997	Cement

8 PLUGGING RECORD

Plugging Contractor:	White Drilling Company, Inc.
Address:	P.O. Box 906, Clyde, TX 79510
Plugging Method:	Hand Mix
Date Well Plugged:	02/04/2008

Plugging approved by: Chris Williams with NMOCD

......

State Engineer Representative

	No. Depth	in Feet	Cubic Feet of Cement
	Top	Bottom	
1	20.0	50.0	1/Bent. Pellets
2	0.0	20.0	1/Cement
<u>(*</u>]			
4			
5			
			Annual Contraction in the experimental sector of the secto

File Number: Form: wr-20

page 2 of 4

Trn Number:

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File Number:

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9. LOG OF HOLE: INBE 13 Well#1 MW-1

Depth in From	feet To	Thickness in feet	Color and Type of Material Encountered
0.0	24.0	24.0	Caliche
24.0	50.0	26.0	Reddish brown sandy clay
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		An even of the second se	
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File Number: Form: wr-20 page 3 of 4

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File Number:

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: INBE 13 Well#1 MW-1

..... The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole. $\frac{212108}{212108}$ FOR STATE ENGINEER USE ONLY Quad ____; FWL ___; FSL ___; Use ____; Location No. Trn Number: File Number: Form: wr-20 page 4 of 4

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Appendix D

Laboratory Data

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104

Analytical Report 304932

for

Pride Energy Company

Project Manager: Matt Pride

Pride Energy Company INBE 13 #1

09-JUN-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



09-JUN-08



Project Manager: Matt Pride Pride Energy Company P.O. Box 701950

Tulsa, OK 74170

Reference: XENCO Report No: **304932 Pride Energy Company** Project Address: T11S-R33E, Section 13, Unit Leter G

Matt Pride:

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 304932. 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. 304932 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America





Sample Cross Reference 304932

Pride Energy Company, Tulsa, OK

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Windmill (L-08146)	W	May-28-08 13:00		304932-001



NVIRONMENT	AL
LAB OF	

Certificate of Analysis Summary 304932

Pride Energy Company, Tulsa, OK

Project Name: Pride Energy Company

Project Id: INBE 13 #1 Contact: Matt Pride

Report Date:

Date Received in Lab: May-31-08 01:05 pm

09-JUN-08 nt Barron, II

Project Location: T11S-R33E, Section 13, Unit Leter G T ... T. T. Т

	Lab Id:	304932-001			
Analysis Requested	Field Id:	Windmill (L-0814)	6)		
	Depth:				
	Matrix:	WATER			
	Sampled:	May-28-08 13:0)0		
Alkalinity by SM2320B	Extracted:				
	Analyzed:	Jun-06-08 15:00	0		
	Units/RL:	mg/L I	RL		
Alkalinity, Total (as CaCO3)		168	4.00		
Inorganic Anions by EPA 300	Extracted:				
	Analyzed:	Jun-02-08 10:36	6		
	Units/RL:	mg/L I	RL		
Chloride		46.3	2.50		
Sulfate		128	2.50		
Metals per ICP by SW846 6010B	Extracted:				
F2,	Analyzed:	Jun-04-08 00:00	0		
	Units/RL:	mg/L I	RL		
Calcium		82.6 0).100		
Magnesium		10.8 0).010		
Potassium		1.16 0).500		
Sodium		36.8 0).500		
TDS by SM2540C	Extracted:				
	Analyzed:	Jun-02-08 16:15	5		
	Units/RL:	mg/L l	RL		
Total dissolved solids		384	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 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.

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

Since 1990

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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

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(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477
	(281) 589-0692 (214) 902 0300 (210) 509-3334 (813) 620-2000 (305) 823-8500 (770) 449-8800





Project Name: Pride Energy Company

Work Order #: 304932	Project ID:				INBE 13 #1	
Lab Batch #: 724706	Sample: 724706	-1-BKS	1-BKS Matrix: Water			
Date Analyzed: 06/06/2008	Date Prepared: 06/06/2	2008	Analy			
Reporting Units: mg/L	Batch #: 1 BLANK /BLANK SPIKE REC			COVERY S	STUDY	
Alkalinity by SM2320B	Blank Spike Blank Blank Result Added Spike Spike				Control Limits	Flags
Analytes			[C]	[D]	70K	
Alkalinity Total (as CaCO3)	ND	200	174	87	80-120	
		200		0.	_ 00 .20	
Lab Batch #: 724230	Sample: 724230)-1-BKS	Matr	ix: Water		L
Lab Batch #: 724230 Date Analyzed: 06/02/2008	Sample: 724230 Date Prepared: 06/02/2	0-1-BKS 2008	Matr Analy	ix: Water	OR	
Lab Batch #: 724230 Date Analyzed: 06/02/2008 Reporting Units: mg/L	Sample: 724230 Date Prepared: 06/02/2 Batch #: 1	D-1-BKS 2008 BLANK /	Matr Analy BLANK SPI	ix: Water est: LATCO	OR OVERY S	STUDY
Lab Batch #: 724230 Date Analyzed: 06/02/2008 Reporting Units: mg/L Inorganic Anions by EPA 300	Sample: 724230 Date Prepared: 06/02/2 Batch #: 1 Blank Result)-1-BKS 2008 BLANK / Spike Added [B]	Matr Analy BLANK SPI Blank Spike Result	ix: Water est: LATCO IKE REC Blank Spike %R	OR COVERY S Control Limits %R	STUDY Flags
Lab Batch #: 724230 Date Analyzed: 06/02/2008 Reporting Units: mg/L Inorganic Anions by EPA 300 Analytes	Sample: 724230 Date Prepared: 06/02/2 Batch #: 1 Blank Result [A]	-1-BKS 2008 BLANK / Spike Added [B]	Matr Analy BLANK SPI Blank Spike Result [C]	ix: Water est: LATCO KE REC Blank Spike %R [D]	OR COVERY S Limits %R	STUDY Flags
Lab Batch #: 724230 Date Analyzed: 06/02/2008 Reporting Units: mg/L Inorganic Anions by EPA 300 Analytes Chloride	Sample: 724230 Date Prepared: 06/02/2 Batch #: 1 Blank Result [A] ND	-1-BKS 2008 BLANK / Spike Added [B] 10.0	Matr Analy BLANK SPI Blank Spike Result [C] 10.1	ix: Water rst: LATCO KE REC Blank Spike %R [D] 101	OR COVERY S Limits %R 85-115	STUDY Flags

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





Form 3 - MS Recoveries



Project Name: Pride Energy Company

Work Order #: 304932

Lab Batch #: 724230			Pr	oject ID:	INBE 13 #1	
Date Analyzed: 06/02/2008 Da	ate Prepared:	06/02/2008		Analyst:	LATCOR	
QC- Sample ID: 304831-001 S	Batch #:	1		Matrix:	Water	
Reporting Units: mg/L	MAT	RIX / MA	TRIX SPIKE	RECOV	ERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	B]				
Chloride	34.6	50.0	77.6	86	85-115	
Sulfate	13.6	50.0	55.2	83	90-110	Х

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference $[E] = 200^{\circ}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes





Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 304932

Lab Batch #: 724706			Project I	D: INBE 13	#1
Date Analyzed: 06/06/2008 Date I)6/2008	Analy	st: WRU		
QC- Sample ID: 304932-001 D	Batch #: 1	l	Matr	ix: Water	
Reporting Units: mg/L	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Alkalinity by SM2320B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity Total (as CaCO3)	168	172	2	20	
7. (a)	100	172		20	
Lab Batch #: 724250 Date Analyzed: 06/02/2008 Date 1	Prepared: 06/0	02/2008	Analy	st: LATCOF	λ
OC- Sample ID: 304831-001 D	Batch #:	t	Matr	ix: Water	•
Reporting Units: mg/L	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Inorganic Anions by EPA 300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	34.6	26.5	27	20	F
Sulfate	13.6	10.8	23	20	F
Lab Batch #: /244// Date Analyzed: 06/04/2008 Date I QC- Sample ID: 304932-001 D D	Prepared: 06/0 Batch #:	04/2008 1	Analy Matr	st: LATCOF	
Reporting Units: mg/L	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Metals per ICP by SW846 6010B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
	82.6	80.0	- 2	25	
Magnesium	10.8	10.3	5	25	
Potassium	1.16	1 28	10	25	
Sodium	36.8	36.3	1	25	
Lab Batch #: 724353 Date Analyzed: 06/02/2008 Date QC- Sample ID: 304932-001 D Reporting Units: mg/L	Prepared: 06/0 Batch #: SAMPLE	02/2008 1 / SAMPLE	Analy Matr	st: WRU ix: Water	OVERY
	Donand Carry 1	Sample		Control	
Analyte	Result [A]	Duplicate Result [B]	RPD	Limits %RPD	Flag
Total dissolved solids	384	356	8	30	

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
Energy company

14 18

Client:	Pride
Date/ Time:	5131 108
Lab ID # :	304932
Initials:	59

Sample Receipt Checklist

#1 Temperature of cont		TTU	4.2	A (P	٦
	ainer/ cooler?	(Yes)	No	7°°C °C	1
2 Shipping container li	n good condition?	(res)	No		-
#3 Custody Seals intac	t on shipping container/ cooler?	res	No	Not Present	4
#4 Custody Seals Intac	on sample bottles/ container?	(Yes)	NO	Not Present	-
#5 Chain of Custody pr	esent/	(Yes)	<u>NO</u>		4
#6 Sample instructions	complete of Chain of Custody?	1 ves	NO		4
#7 Chain of Custody st	gned when relinguished/ received?	1 ges	NO		4
#8 Chain of Custody at	rees with sample label(s)?	(Yes)	NO	ID written on Cont./ Lid	-
#9 Container label(s) le	gible and/intact?	(Yes)	NO	Not Applicable	4
#10 Sample matrix/ pro	perties agree with Chain of Custody?	(Yes)	No		1
#11 Containers supplie	d by ELOT?	CYes	No		
#12 Samples in proper	container/ bottle?	Yes)	No	See Below	
#13 Samples properly,p	preserved?	(Yes)	No	See Below	
#14 Sample bottles inte	ict?	(Yes)	No		
#15 Preservations docu	imented on Chain of Custody?	(Yes)	No		
#16 Containers docum	ented on Chain of Custody?	Yes	No		7
#17 Sufficient sample a	mount for indicated test(s)?	Yes	No	See Below	1
#18 All samples receive	ed within sufficient hold time?	Yes	No	See Below	7
#19 Subcontract of san	nple(s)?	Yes	No	Not Applicable	1
#20 VOC samples hav	e zero headspace?	Yes	No	Not Applicatita	-
Contact:	Contacted by:			Date/ Time:	
Regarding:					
Regarding:					
Regarding:	N.		*****		
Regarding: Corrective Action Taker	P.				
Regarding: Corrective Action Taker Check all that Apply:	See attached e-mail/ fax Client understands and wou Cooling process had begun	uld like to prod shortiy after	ceed with	n analysis g event	
Regarding: Corrective Action Taker Check all that Apply:	See attached e-mail/ fax Client understands and wou Cooling process had begun	uld like to prod shortiy after	ceed with sampling	n enalysis g event	



COVER LETTER

Monday, June 23, 2008

Katie Lee R.T. Hicks Consultants, LTD 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

TEL: (505) 266-5004 FAX (505) 266-0745

RE: Pride Energy

Dear Katie Lee:

Order No.: 0806226

Hall Environmental Analysis Laboratory, Inc. received 8 sample(s) on 6/16/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

1

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001



4901 Hawkins NE Suite D Albuquerque, NM 87109 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: 23-Jun-08

CLIENT:	R.T. Hicks Consultants, LTD
Project:	Pride Energy
Lab Order:	0806226

CASE NARRATIVE

See Corrective Action: [1487] TCLP leachate 0806226-08B reported with 21ppm CL in TCLP fluid MB for 300_W

CLIENT:	R.T. Hicks Consult	ants, LTD Client Sample ID:			H2 com		
Lab Order:	0806226	Tag Number:					
Project:	Pride Energy			Collection Date:	: 6/11/2008 10:30:00 AM		
Lab ID:	0806226-01A	Date Received:	6/16/2008	Matrix:	SOIL		
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	
ASTM 2216: P	ERCENT MOISTURE	<u> </u>		ويسوي المتكاف المستجد والمستجد المتعاد المتكاف المستجد والمستجد والمستجد والمستجد والمستجد والمستحد والمستجد و		Analyst: CMH	
Percent Moistu	re ,	13	0.10	wt%	1	6/16/2008	
EPA METHOD	9056A: ANIONS					Analyst: SLB	
Chloride		4700	15	mg/Kg-dry	50	6/17/2008 9:02:41 AM	

Hall Environmental Analysis Laboratory, Inc.

Date: 23-Jun-08

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 1 of 10

2

Hall Envir	ronmental Anai	c. 23-34	#F-00			
CLIENT:	R.T. Hicks Consult	iants, LTD		Client Sample I	D: H3 cc)m
Lab Order:	0806226			Tag Numbe	r:	
Project:	Pride Energy			Collection Dat	e: 6/11/2	2008 11:10:00 AM
Lab ID:	0806226-02A	Date Received:	6/16/2008	Matri	x: SOIL	
Analyses		Result	PQL (Qual Units	DF	Date Analyzed
ASTM 2216: Pl Percent Moistu		9.5	0.10	wt%	1	Analyst: CMH 6/16/2008
EPA METHOD	9056A: ANIONS					Analyst: SLB
Chloride		4700	30	mg/Kg-dry	100	6/17/2008 9:20:05 AM

Date: 23-, hm-08



- ¥ Value exceeds Maximum Contaminant Level
- Έ Value above quantitation range
- Analyte detected below quantitation limits J
- Not Detected at the Reporting Limit ND
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- RL Reporting Limit
| Hall | Environmental | Analys | is Labo | ratory, | Inc. |
|------|---------------|--------|---------|---------|------|
| | | | | | |

CLIENT:	R.T. Hicks Consult	ants, LTD		Client Sample ID:	H4 co	m	
Lab Order:	0806226			Tag Number:			
Project:Pride EnergyLab ID:0806226-03A				Collection Date:	6/11/2008 11:30:00 AM SOIL		
		Date Received:	6/16/2008	Matrix:			
Analyses		Result	PQL Qua	al Units	DF	Date Analyzed	
ASTM 2216: P	ERCENT MOISTURE			i i i contra popular popular popular de la contra de la con		Analyst: CMH	
Percent Moistu	ite .	8.7	0.10	wt%	1	6/16/2008	
EPA METHOD	9056A: ANIONS					Analyst: SLB	
Chloride		3500	30	mg/Kg-dry	100	6/17/2008 9:37:30 AM	

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Hall Envi	ronmental Anal	ysis Laborat	, Date:	23-Ji	in-U8		
CLIENT:	R,T. Hicks Consult	ants, LTD		Client Sample ID:	H1 5	bgs	
Lab Order:0806226Project:Pride Energy				Tag Number:			
				Collection Date:	6/11/2008 10:00:00 AM SOIL		
Lab ID:	0806226-04A	Date Received:	6/16/2008 Matrix:				
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed	
ASTM 2216: Pl Percent Moistu	ERCENT MOISTURE	19	0.10	wt%	1	Analyst: CMH 6/16/2008	
EPA METHOD 9056A: ANIONS Chloride		15000	60	mg/Kg-dry	200	Anaiyst: SLB 6/17/2008 12:31:38 PM	

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Envir	ronmental Anal	ysis Laborat	ic.	Date	': 23-JU	n-00			
CLIENT:	R.T. Hicks Consult	ants, LTD			Client Sample ID	: H2 7'	bgs		
Lab Order:0806226Project:Pride Energy					Tag Number	:			
					Collection Date	: 6/11/2	6/11/2008 10:30:00 AM		
Lab ID:	0806226-05A	Date Received:	6/16/200)8	Matrix	: SOIL			
Analyses		Result	PQL	Qua	l Units	DF	Date Analyzed		
ASTM 2216: Pl Percent Moistu	ERCENT MOISTURE	16	0.10		wt%	1	Analyst: CMH 6/16/2008		
EPA METHOD Chloride	9056A: ANIONS	10000	30		mg/Kg-dry	100	Analyst: SLB 6/17/2008 10:47:09 AM		

22. Jun 18

* Value exceeds Maximum Contaminant Level

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Hall Envi	ronmental Anal	ysis Laborat	IC.	Date:	23-Jun-08				
CLIENT:R.T. Hicks ConsultLab Order:0806226Project:Pride EnergyLab ID:0806226-06A		ants, LTD		C	Client Sample ID:	H2 so	H2 solid		
		Date Received:	6/16/2008		Collection Date: Matrix:	6/11/2008 10:20:00 AM SOIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed		
ASTM 2216: P Percent Moistu		16	0.10		wt%	1	Analyst: CMH 6/16/2008		
EPA METHOD	9056A: ANIONS	(0000			and a first state of	200	Analyst: SLB		
EPA METHOD Chloride	9056A: ANIONS	16000	60		mg/Kg-dry	200	Analyst: SLB 6/17/2008 12:49:02 PM		

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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onmental Anal	Date:	23-JU	<i>n-08</i>				
R.T. Hicks Consult	ants, LTD		(Client Sample ID:	H3 so	olid	
0806226				Tag Number:			
Project: Pride Energy				Collection Date:	6/11/2008 10:40:00 AM		
0806226-07A	Date Received:	6/16/200)8	Matrix:	SOIL		
	Result	PQL	Qual	Units	DF	Date Analyzed	
RCENT MOISTURE	28	0.10		wt%	1	Analyst: CMH 6/16/2008	
9056A: ANIONS	20000	150		mg/Kg-dry	500	Analyst: SLB 6/17/2008 1:06:27 PM	
	onmental Anal R.T. Hicks Consult 0806226 Pride Energy 0806226-07A RCENT MOISTURE 9	onmental Analysis Laborat R.T. Hicks Consultants, LTD 0806226 Pride Energy 0806226-07A Date Received: Result RCENT MOISTURE 9 28 20000	onmental Analysis Laboratory, In R.T. Hicks Consultants, LTD 0806226 Pride Energy 0806226-07A Date Received: 6/16/200 Result PQL RCENT MOISTURE e 28 0.10 D056A: ANIONS 20000 150	onmental Analysis Laboratory, Inc. R.T. Hicks Consultants, LTD 0806226 Pride Energy 0806226-07A Date Received: 6/16/2008 Result PQL Qual RCENT MOISTURE a 28 0.10 20000 150	Date: Date: R.T. Hicks Consultants, LTD Client Sample ID: 0806226 Tag Number: Pride Energy Collection Date: 0806226-07A Date Received: 6/16/2008 Matrix: Result PQL Qual Units RCENT MOISTURE 28 0.10 wt% 20000 150 mg/Kg-dry	Date: 23-74 Date: 23-74 R.T. Hicks Consultants, LTD Client Sample ID: H3 so 0806226 Tag Number: Pride Energy Collection Date: 6/11/2 0806226-07A Date Received: 6/16/2008 Matrix: SOIL Result PQL Qual Units DF RCENT MOISTURE 28 0.10 wt% 1 2000 150 mg/Kg-dry 500	

Qualifiers:

Value exceeds Maximum Contaminant Level *

- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Not Detected at the Reporting Limit ND
- Spike recovery outside accepted recovery limits S
- в Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Hall	Environmental	Analy	sis La	borator	y, Inc.

	······							
CLIENT:	R.T. Hicks Consult	ants, LTD	C	Client Sample ID:		H4 solid		
Lab Order:	0806226			Tag Number:				
Project: Pride Energy			•	Collection Date:	6/11/2008 11:20:00 AM			
Lab ID:	0806226-08A	Date Received:	6/16/2008	Matrix:	SOIL			
Analyses		Result	PQL Qual	Units	DF	Date Analyzed		
ASTM 2216: PI	ERCENT MOISTURE					Analyst: CMH		
Percent Moistu	re	24	0.10	wt%	1	6/16/2008		
EPA METHOD	9056A: ANIONS					Analyst: SLB		
Chloride		20000	150	mg/Kg-dry	500	6/17/2008 1:58:42 PM		

Qualifiers:

* Value exceeds Maximum Contaminant Level

- B Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
 - Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Page 8 of 10

Hall Environmental Analysis Laboratory, 1	Hall	Environm	ental	Analysis	Laboratory,	Inc
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CLIENT:	R.T. Hicks Consu	ultants, LTD	(Client Sample ID:	: H4 solid		
Lab Order:	0806226			Tag Number:			
Project: Pride Energy				Collection Date:	6/11/2008 11:20:00 AM		
Lab ID:	0806226-08B	Date Received:	6/16/2008	Matrix:	: LEACHATE		
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	
EPA METHOD	300.0: ANIONS SPL	P EXTRACT		a na far an		Analyst: SLB	
Chloride		1200	5.0	mg/L	50	6/21/2008 5:25:53 AM	



* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Envi	all Environmental Analysis Laboratory, Inc						23-JU	n-00
CLIENT:	NT: R.T. Hicks Consultants, LTD				Client Sa	ample ID:	H4 so	lid
Lab Order:	0806226				Tag	Number:		
Project:	Pride Energy				Collect	ion Date:	6/11/2	008 11:20:00 AM
Lab ID:	0806226-08C	Date Received:	6/16/2008	8		Matrix:	LEAC	HATE
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD	300.0: ANIONS TCL	PEXTRACT				والتحديد والمتعارك الكفيد	<u>نان خبر بی تکتر</u>	Analyst: SLB
Chloride		1200	5.0		mg/L		50	6/21/2008 6:52:56 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

ND

4.954

mg/L

LCS

mg/L

0806226

6/20/2008 9:42:04 AM

QA/QC SUMMARY REPORT

Client: R.T. Hicks Consultants, LTD

Project: Work Order: Pride Energy Analyte Result Units PQL %Rec LowLimit HighLimit %RPD RPDLimit Qual EPA Method 9056A: Anions Method: Batch ID: Analysis Date: 6/16/2008 10:53:20 PM MBLK 16221 Sample ID: MB-16221 Chloride ND mg/Kg 0.30 Batch ID: 16220 Analysis Date: 6/19/2008 2:42:57 PM Sample ID: MB-16220 MBLK 0.30 Chloride ND mg/Kg LCS Batch ID: 16221 Analysis Date: 6/16/2008 11:10:45 PM Sample ID: LCS-16221 110 99.1 90 Chloride 4.86 mg/Kg 0.30 Sample ID: LCS-16220 LCS Batch ID: 16220 Analysis Date: 6/19/2008 3:00:22 PM 96.7 90 110 Chloride 14.51 mg/Kg 0.30 EPA Method 300.0: Anions Method: 6/20/2008 9:24:40 AM Sample ID: MB MBLK Batch ID: R29032 Analysis Date:

0.10

0.10

99.1

Qualifiers:

Chloride

Chloride

Sample ID: LCS

Е Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits Н Holding times for preparation or analysis exceeded

Batch ID:

90

R29032

110

Analysis Date:

- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits 12

Hall Environmental Analysis Laboratory, Inc.

	Sample	Receip	t Chec	klist				
Client Name RT HICKS				Date Receive	ed:		6/16/2008	
Work Order Number 0806226				Received b	y: AT		·•• .	
Checklist completed by Convergence Stopature	mia	6	Date	Sample ID	labels checked	by:	13 Initials	•
Matrix:	Carrier name	<u>Client d</u>	<u>rop-off</u>					
Shipping container/cooler in good condition?		Yes 🗹]	No 🗌	Not Present			
Custody seals intact on shipping container/coo	er?	Yes 🗌]	Νο 🗌	Not Present		Not Shipped	
Custody seals intact on sample bottles?		Yes 🗌]	No 🗔	N/A	\checkmark		
Chain of custody present?		Yes 🔽)	No 🗔				
Chain of custody signed when relinquished and	received?	Yes 🗹]	No 🗔				
Chain of custody agrees with sample labels?		Yes 🗹]	No 🗆				
Samples in proper container/bottle?		Yes 🗹]	No 🗌				
Sample containers intact?		Yes 🗹)	No 🗖				
Sufficient sample volume for indicated test?		Yes 🗹]	No 🗖				
All samples received within holding time?		Yes 🗹]	No 🗍				
Water - VOA vials have zero headspace?	No VOA vials sub	mitted 🗹]	Yes 🗌	No 🗌			
Water - Preservation labels on bottle and cap n	natch?	Yes 🗌]	No 🗌	N/A 🗹			
Water - pH acceptable upon receipt?		Yes 🗌]	No 🗌	N/A 🗹			
Container/Temp Blank temperature?		28°	<(5° C Accepta	ble			
COMMENTS:			lf	given sufficier	nt time to cool.			
Client contacted	Date contacted:			Per	son contacted			
Contacted by:	Regarding:	• • • • • • • • • • • • • • • • • • •					· · · · · · · · · · · · · · · · · · ·	.
Comments:								
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Corrective Action	······································				· · · · · · · · · · · · · · ·			
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