1**R** - 501

AGWMR

01/21/2011



Certified Mail Return Receipt No. 7009 2250 0001 4928 0063

January 21, 2011

 \mathbf{X}^{\prime}

·` - .* # Mr. Glenn von Gonten New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: 2010 Annual Groundwater Monitoring Report State 36 #2 Site (API# 30-025-36909) T19S-R37E-Section 36, Unit Letter O, Lea County, New Mexico

Dear Mr. von Gonten:

As agent for Pride Energy Company (Pride), Trident Environmental submits this 2010 Annual Groundwater Monitoring Report for the above-referenced site.

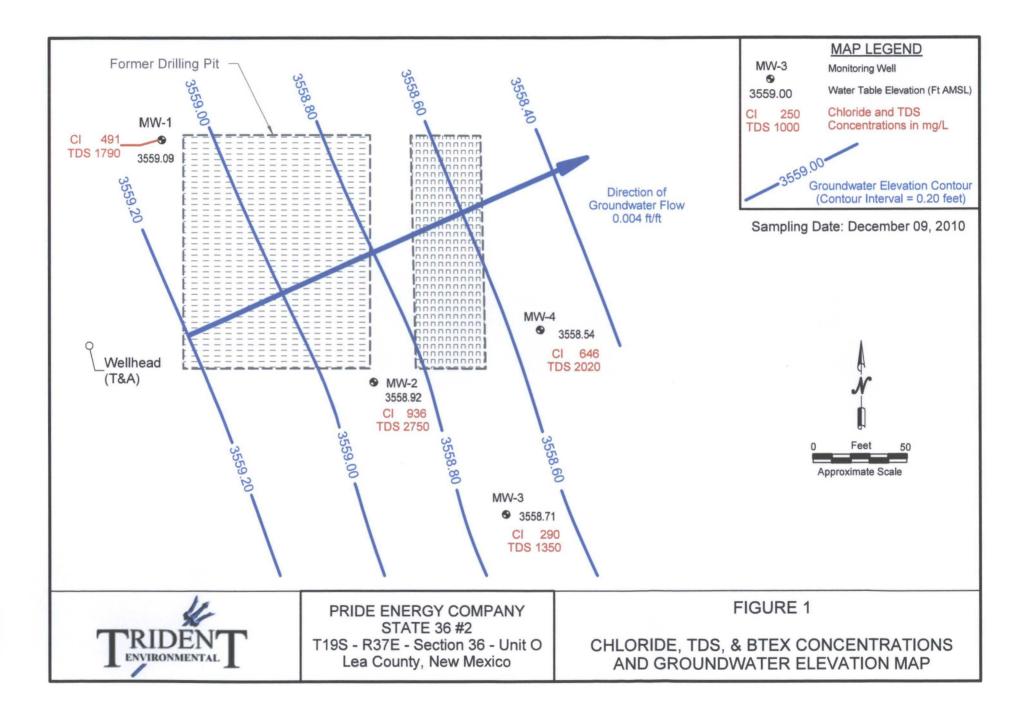
Groundwater Monitoring Results

Groundwater monitoring activities have been performed at the site on a quarterly basis since January 2008 as summarized in Table 1. A site plan showing the most recent groundwater elevation and the chloride/TDS concentrations in the four on site monitoring wells (MW-1, MW-2, MW-3, and MW-4) is shown in Figure 1. Figure 2 depicts graphs of chloride and TDS concentrations and groundwater elevation versus time for each monitoring well. A well sampling data form, laboratory analytical reports, and chains of custody documentation for each 2010 sampling event are included in Attachment A.

State 36 #2 Site (API-025-30-36909) 2010 Annual Groundwater Monitoring Report

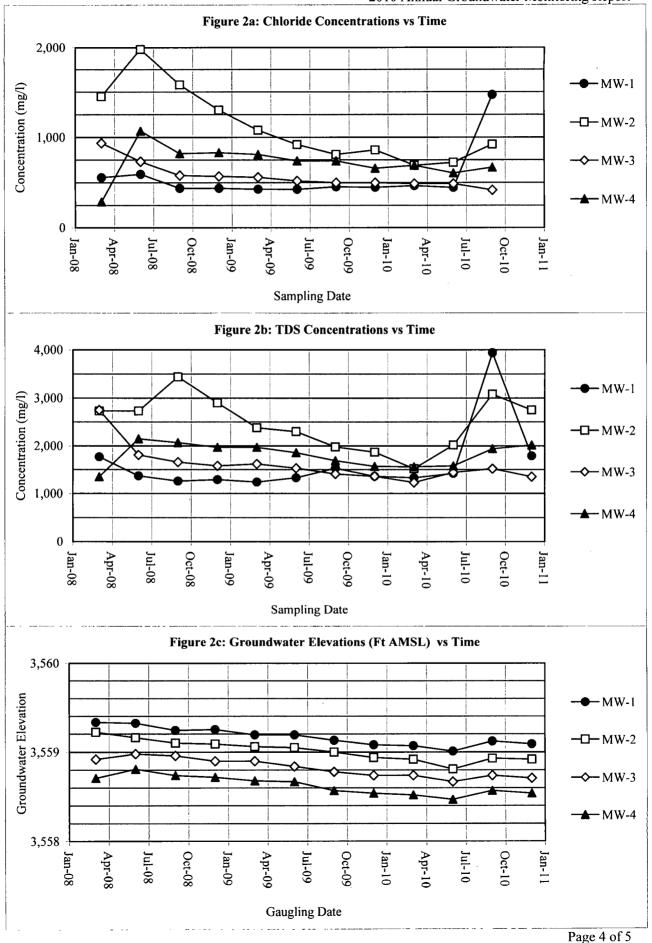
Monitoring		Depth to	Groundwater Mit			
Well	Sample	Groundwater	Elevation	Chloride	TDS	BTEX
WCII	Date	(feet BTOC)	(feet AMSL)	(mg/L)	(mg/L)	(mg/L)
	02/25/08	43.80	3559.41	489		
	03/27/08	43.88	3559.33	557	1,770	< 0.003
	06/17/08	43.89	3559.32	594	1,370	
	09/10/08	43.97	3559.24	440	1,260	< 0.003
	12/17/08	43.96	3559.25	440	1,290	< 0.003
	03/19/09	44.02	3559.19	430	1,240	< 0.003
MW-1	06/18/09	44.02	3559.19	428	1,330	< 0.003
	09/17/09	44.08	3559.13	456	1,530	< 0.003
	12/10/09	44.13	3559.08	450	1,360	< 0.003
	03/31/10	44.14	3559.07	468	1,330	
	06/16/10	44.20	3559.01	447	1,420	
	09/22/10	44.09	3559.12	1,470	3,940	
	12/13/10	44.12	3559.09	491	1,790	
	05/08/08	43.25	3559.22	1,450	2,730	< 0.003
	06/17/08	43.31	3559.16	1,980	2,730	
	09/10/08	43.37	3559.10	1,580	3,440	<0.003
	12/17/08	43.38	3559.09	1,300	2,900	< 0.003
	03/19/09	43.41	3559.06	1,080	2,380	< 0.003
	06/18/09	43.42	3559.05	920	2,300	< 0.003
MW-2	09/17/09	43.47	3559.00	810	1,980	< 0.003
	12/10/09	43.53	3558.94	860	1,870	< 0.003
	03/31/10	43.55	3558.92	691	1,520	
	06/16/10	43.66	3558.81	723	2,020	
	09/22/10	43.54	3558.93	923	3,080	
	12/13/10	43.55	3558.92	936	2,750	
	06/17/08	43.83	3558.98	733	1,810	
- 	09/10/08	43.85	3558.96	580	1,660	< 0.003
	12/17/08	43.91	3558.90	570	1,580	< 0.003
	03/19/09	43.91	3558.90	560	1,620	< 0.003
	06/18/09	43.97	3558.84	520	1,530	<0.003
MW-3	09/17/09	44.03	3558.78	500	1,410	<0.003
-	12/10/09	44.07	3558.74	500	1,360	<0.003
	03/31/10	44.07	3558.74	489	1,230	
	06/16/10	44.14	3558.67	489	1,440	
	09/22/10	44.07	3558.74	420	1,520	
	12/13/10	44.10	3558.71	290	1,350	
	06/17/08	43.54	3558.81	1,070	2,150	
	09/10/08	43.61	3558.74	820	2,070	< 0.003
	12/17/08	43.63	3558.72	830	1,970	< 0.003
	03/19/09	43.67	3558.68	810	1,970	< 0.003
	06/18/09	43.68	3558.67	740	1,860	< 0.003
MW-4	09/17/09	43.78	3558.57	740	1,690	< 0.003
	12/10/09	43.81	3558.54	660	1,570	<0.003
	03/31/10	43.83	3558.52	691	1,560	
	06/16/10	43.88	3558.47	606	1,580	
	09/22/10	43.78	3558.57	669	1,940	
	12/13/10	43.81	3558.54	646	2,020	

Table 1: Summary of Groundwater Monitoring Results



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State 36 #2 Site (API # 30-025-36909) 2010 Annual Groundwater Monitoring Report



Below is a summary of conclusions regarding groundwater conditions:

- The local water table is at a depth of approximately 41 feet bgs and slopes towards the northeast at a magnitude of approximately 0.004 ft/ft, which is anomalous to the prevailing southeast trending regional gradient.
- The base of the aquifer is at approximately 50 ft bgs, where red clay was encountered during well installations, therefore the saturated thickness is estimated at only 9 feet.
- The potential well yield for possible beneficial use of groundwater at the site is very low due to the limited thickness of the aquifer (less than 10 feet), observations of low yields during monitoring well development activities, and water table elevation declines of approximately 0.1 feet per year. In the unlikely event a water well is completed in the area, the expected yield would be less than 150 gallons per day which is considered inadequate for any beneficial domestic, irrigation, or municipal use.
- Chloride and TDS concentrations from groundwater samples collected at monitoring well MW-1, MW-2, MW-3, and MW-4 exceed WQCC standards. The highest chloride and TDS levels during the most recent sampling event in December 2010 have been observed in monitoring well MW-2 with concentrations of 936 mg/L and 2,750 mg/L, respectively.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) are not a constituent of concern as concentrations remained below laboratory detection limits and WQCC standards for two years; therefore, analysis for these constituents has been suspended. Quarterly ground water sampling and monitoring will continue.

We look forward to working with you on this project. If you have any questions please call me at 432-638-8740 or Matt Pride at 918-524-9200.

Sincerely,

11 Jan Red

Gilbert Van Deventer, REM, PG Trident Environmental

cc: Matt Pride (Pride Energy Co., Tulsa, OK) Larry Hill (NMOCD -District 1, Hobbs, NM)

Attachments: Figures, well sampling data form, and laboratory analytical reports

ATTACHMENT A

WELL SAMPLING DATA FORM

and

LABORATORY ANALYTICAL REPORTS

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WELL SAMPLING DATA FORM

CLIENT: Pride Energy Company

SITE NAME: State 36 #2 (API# 30-025-36909)

ITE LOCATION: T19S R37E Sec36 Unit O, Lea County, NM

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SAMPLER: Gil Van Deventer

PURGING METHOD:

] Hand Bailed 🛛 🗹 Pump, Type: Proactive SuperTwister Purge Pump

Direct from Discharge Hose

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SAMPLING METHOD:

SPOSAL METHOD OF PURGE WATER:

On-site Drum

Disposable Bailer

🗹 SWD Disposal Facility

Other:

Quarter	Date	Time	Monitoring Well No.	Depth to Water (ft btoc)	Total Depth (ft)	Water Column Height (ft)	Well Factor 2"=.16 4"=.65	Calc. Well Vol. (gal)	Volume Purged (gal)	No. of Well Volumes Purged	Temp. °C	Cond. mS/cm	pН	Purge Method	PHYSICAL APPEARANCE AND REMARKS
		16:32	MW-1	44.14	52.37	8.23	0.16	1.3	5	3.8	19.5	1.99	7.82		Some silt/sand but cleared during purge
First	03/31/10	17:40	MW-2	43.55	57.61	14.06	0.16	2.2	7	3.1	19.1	2.59	7.58	Hand	Some silt/sand but cleared during purge
Ē	03/31/10	16:55	MW-3	44.07	53.83	9.76	0.16	1.6	5	3.2	19.4	2.17	7.98	Bail	Some silt/sand but cleared during purge
		17:15	MW-4	43.83	50.30	6.47	0.16	1.0	5	4.8	19.3	2.57	7.70		Some silt/sand but cleared during purge
		10:20	MW-1	44.20	52.37	8.17	0.16	1.3	5	3.8	21.0	2.30	7.71		Some silt/sand but cleared during purge
Second	06/15/10	11:40	MW-2	43.66	57.61	13.95	0.16	2.2	8	3.6	20.1	2.86	7.78	Hand	Some silt/sand but cleared during purge
Sec	00/10/10	10:50	MW-3	44.14	53.83	9.69	0.16	1.6	5	3.2	20.2	2.25	7.74	Bail	Some silt/sand but cleared during purge
		11:10	MW-4	43.88	50.30	6.42	0.16	1.0	4	3.9	19.8	2.66	7.87		Some silt/sand but cleared during purge
		10:55	MW-1	44.09	52.37	8.28	0.16	1.3	16	12.1	19.7	4.82	7.19		Some silt/sand but cleared during purge
Third	09/22/10	13:30	MW-2	43.54	57.61	14.07	0.16	2.3	22	9.8	19.3	3.74	7.79	Purge	Some silt/sand but cleared during purge
片	05/22/10	11:30	MW-3	44.07	53.83	9.76	0.16	1.6	10	6.4	19.7	2.10	7.91	Pump	Some silt/sand but cleared during purge
		12:00	MW-4	43.78	50.30	6.52	0.16	1.0	16	15.3	19.2	2.87	7.87		Some silt/sand but cleared during purge
		14:53	MW-1	44.12	52.37	8.25	0.16	1.3	8	6.1	18.5	2.87	7.48		Some silt/sand but cleared during purge
1 _f	12/13/10	16:00	MW-2	43.55	57.61	14.06	0.16	2.2	14	6.2	18.1	3.79	7.48	Purge	Some silt/sand but cleared during purge
Fourth	12/13/10	15:18	MW-3	44.10	53.83	9.73	0.16	1.6	8	5.1	18.7	1.50	7.34	Pump	Some silt/sand but cleared during purge
		15:37	MW-4	43.81	50.30	6.49	0.16	1.0	8 7.7		18.5	2.67	7.44		Some silt/sand but cleared during purge

COMMENTS: Equipment decontamination consists of gloves, Alconox, and Distilled Water Rinse.

Note: Gate may be locked for access.

One of the locks combo is 5010

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Xenco Laboratories for chloride (300.1) and TDS (160.1) analysis.



Analytical Report 400565

for Trident Environmental

Project Manager: Gil Van Deventer

Pride Energy Company

State 36 # 2

20-DEC-10



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

Page 1 of 11





20-DEC-10

Project Manager: Gil Van Deventer Trident Environmental P.O. Box 7624 Midland, TX 79708

Reference: XENCO Report No: 400565 Pride Energy Company Project Address: T19S-R37E, Sec 36, Unit Letter O - Lea County, NM

Gil Van Deventer:

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 400565. 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. 400565 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 400565



Trident Environmental, Midland, TX

Pride Energy Company

Sample Id Matrix Date Collected Sample Depth	Lab Sample Id
MW-1 W Dec-13-10 14:53	400565-001
MW-2 W Dec-13-10 16:00	400565-002
MW-3 W Dec-13-10 15:18	400565-003
MW-4 W Dec-13-10 15:37	400565-004



CASE NARRATIVE

Client Name: Trident Environmental Project Name: Pride Energy Company



Project ID:State 36 # 2Work Order Number:400565

Report Date: 20-DEC-10 Date Received: 12/14/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-835912 Anions by E300 E300MI

Batch 835912, Chloride recovered above QC limits in the Matrix Spike. Samples affected are: 400565-001, -002, -003, -004. The Laboratory Control Sample for Chloride is within laboratory Control Limits

Batch: LBA-835988 TDS by SM2540C



Certificate of Analysi ummary 400565

Trident Environmental, Midland, TX

Project Name: Pride Energy Company



Project Id: State 36 # 2 Contact: Gil Van Deventer Project Location: T19S-R37E, Sec 36, Unit Letter O - Lea C

Date Received in Lab: Tue Dec-14-10 12:30 pm

Report Date: 20-DEC-10

								Project Ma	nager:	Brent Barron, II	
	Lab Id:	400565-001		400565-0	02	400565-0	003	400565-0	004		
Analysis Requested	Field Id:	MW-1		MW-2		MW-3	i .	MW-4	ļ		
Analysis Requested	Depth:										
	Matrix:	WATER		WATEI	ι	WATEI	R ·	WATE	R		•
	Sampled:	Dec-13-10 14:53	3	Dec-13-10	6:00	Dec-13-10	15:18 ;	Dec-13-10	15:37		
Anions by E300	Extracted:		1								
	Analyzed:	Dec-14-10 15:10	0	Dec-14-10	5:10	Dec-14-10	15:10	Dec-14-10	15:10		
	Units/RL:	mg/L I	RL	mg/L	RL	mg/L	RL ·	mg/L	RL		
Chloride		491 12	2.5	936	25.0	290	10.0	646	12.5		
TDS by SM2540C	Extracted:		1								
	Analyzed:	Dec-14-10 16:00	0	Dec-14-10 1	6:00	Dec-14-10 1	16:00	Dec-14-10	16:00		
	Units/RL:	mg/L I	RL	mg/L	RL	mg/L	RL	mg/L	RL		
Total dissolved solids		1790 5.	.00	2750	5.00	1350	5.00	2020	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 - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron, II

Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- 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.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* 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, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North 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
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116





Project Name: Pride Energy Company

Work Order #: 400565								•	State 36 # 2		
Analyst: LATCOR	D	ate Prepar	ed: 12/14/20	0			. Date A	nalyzed:	12/14/2010		
Lab Batch ID: 835912 Sample: 835912-1-B	SKS	Batc	h #: 1					Matrix:	Water		
Units: mg/L		BLAN	K/BLANK S	SPIKE / I	BLANK S	PIKE DUPI	LICATE	RECOVI	ERY STUE	Y	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	ND	10.0	9.33	93	10	9.44	94	1	80-120	20	
Analyst: WRU	D	ate Prepar	ed: 12/14/201	0			Date A	nalyzed:	12/14/2010		
Lab Batch ID: 835988 Sample: 835988-1-B	KS	Batc	n#: 1					Matrix:	Water		
Units: mg/L		BLAN	K/BLANK S	SPIKE / H	BLANK S	PIKE DUPI	LICATE	RECOVI	ERY STUE	Y	
TDS by SM2540C Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total dissolved solids	<	1000	940	94	1000	954	95	1	80-120	30	

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



Form 3 - MS Recoveries



Project Name: Pride Energy Company

Work Order #: 400565 Lab Batch #: 835912 Date Analyzed: 12/14/2010	Date Prepared: 12/14/2010		oject ID: nalyst: L	State 36 # 2 ATCOR	2
QC- Sample ID: 400475-001 S	Batch #: 1	N	Aatrix: V	Vater	
Reporting Units: mg/L	MATRIX / M	IATRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Spike Result Adde		%R [D]	Control Limits %R	Flag
Analytes	[A] [B]	. [0]	121		
Chloride	129 100	262	133	80-120	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Work Order #: 400565



Project Name: Pride Energy Company

Lab Batch #: 835912			Project I	D: State 36	# 2
Date Analyzed: 12/14/2010 15:10 Date Prep	ared: 12/14/2010) Ana	lyst:LATC	OR	
QC- Sample ID: 400475-001 D Bat	ch #: 1	Mat	rix: Water		
Reporting Units: mg/L	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			ĺ
Chloride	129	130	1	20	
Lab Batch #: 835988					
Date Analyzed: 12/14/2010 16:00 Date Prep	ared: 12/14/2010) Ana	lyst: WRU		
QC- Sample ID: 400564-001 D Bat	ch #: 1	Mat	rix: Water		
Reporting Units: mg/L	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	10600	11100	5	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. 3RL - Below Reporting Limit

				-															_							P	'age	э	1	of	1
12600 West I-20 Eas 797658	st - Odessa TX Tel	V	len	•	<u> </u>	r a	h h		~ ~	• 4	· •		in		-	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST															
(432) 563- Fax (432) 56		Δ			υ.		au	U.		11	U			3				L	AB	Ord	er ID)#_									
Company Name:	·		BILL T							- 44	- ·	PO	#			ANALYSIS REQUEST															
Trident Env Project Manager:	rironmental		Pride	Pride Energy Company / Matt Pride Address: (Street, City, Zip)									(Circle or Specify Method No.)																		
	venter / Trident Environr	nental	POR	PO Box 710950, Tulsa, OK 74170-1950											Ŀ	21	ļ				1			Ì		Π]				
	reet, City, Zip)		<u> </u>	Phone#: Fax#:								1				ž															
PO Box 12	177, Odessa TX 79768		(918	(918) 524-9200 (918) 524-9292										35)																	
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LAB # (LAB USE ONLY 400565	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL (BTEX only)	HNO ₃	NaHSO4	H₂SO₄	ICE	NONE	DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 418.1/TX1005 / TX1005 Extended (C35)		TOLP Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200. TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatil	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (ci, SO4, CO3, HCO3) Total Dissolved Solids (160.1 or SM2540C)	Chloride / CI (SM4500 B or 300.1)	Turn Around Time ~ 24 Hours
-01	MW-1	G	1	x	_	\neg						x		12/13/10	1453				+	1	\uparrow	H				\square	1	1	Tx	x	
-02	MW-2	G	1	x								х		12/13/10	1600			-			T		-				T	T	Tx	X	
-03	MW-3	G	1	x		Τ	Τ					x		12/13/10	1518		Ī			Τ	Г	Π				Π		T	Tx	X	
-04	MW-4	G	1	X								х		12/13/10	1537	Γ					Γ	Π							X	X	
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Delivered By:	Delivered By: (Circle One) Samp				e Condition CHECKED BY:							gil@trident-environmental.com mattp@pride-energy.com																			
Y				Yes Yes (Initials)						Í						ma	aup	ωp	nae	s-er	ierç	49.C	om								
Sampler -	UPS - Bus - Other:		No		No						1	يا.	, °(<u></u>		5	<u>300</u>	ml	0	دأح											_



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Phoenix, San Antonio, Tampa

Prelogin / Nonconformance Report - Sample Log-In

Client:	ident that		
Date/Time:	12.14.10	12:30	
Lab ID # :	4005	165	
Initials:	AE		

Sample Receipt Checklist

1. Samples on ice?		Blue	(Water)	No	
2. Shipping container in good condition?		(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?		(Yes)	No	(NYA) TIZ	
4. Chain of Custody present?		Yes	No		
5. Sample instructions complete on chain of custody?		Yes	No		
6. Any missing / extra samples?		Yes			
7. Chain of custody signed when relinquished / received?		Yes	No		
8. Chain of custody agrees with sample label(s)?		Yes	No		
9. Container labels legible and intact?		Yes	No		
10. Sample matrix / properties agree with chain of custody?		Yes	No ·		
11. Samples in proper container / bottle?		Yes	No		
12. Samples properly preserved?		(Yes)	No	N/A	
13. Sample container intact?		Yes	No		
14. Sufficient sample amount for indicated test(s)?		Yes	No		
15. All samples received within sufficient hold time?		Yes	No		
16. Subcontract of sample(s)?		Yes	No	(NA)	
17. VOC sample have zero head space?		Yes	No	(NA)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.		Cooler 4 No	•	Cooler 5 No.	
Ibs C. Lo °C Ibs °C Ibs	°C	lbs	⊃°	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:		
	en:	
Check all that apply:	□ Cooling process has begun shortly at condition acceptable by NELAC □ Initial and Backup Temperature confi □ Client understands and would like to	rm out of temperature conditions

Analytical Report 391076

for

Trident Environmental

Project Manager: Gil Van Deventer

Pride Energy Company

State 36 #2 (API #30-025-36909)

28-SEP-10



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

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Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



ACCORDENT OF

28-SEP-10

Project Manager: Gil Van Deventer Trident Environmental P.O. Box 7624 Midland, TX 79708

Reference: XENCO Report No: **391076 Pride Energy Company** Project Address: T19S-R37E, Sec 36, Unit Letter O ~ Lea County, NM

Gil Van Deventer:

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 391076. 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. 391076 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 391076



Trident Environmental, Midland, TX

t i

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Sep-22-10 10:55		391076-001
MW-2	W	Sep-22-10 13:30		391076-002
MW-3	W	Sep-22-10 11:30		391076-003
MW-4	W	Sep-22-10 12:00		391076-004



CASE NARRATIVE

Client Name: Trident Environmental Project Name: Pride Energy Company



 Project ID:
 State 36 #2 (API #30-025

 Work Order Number:
 391076

Report Date: 28-SEP-10 Date Received: 09/23/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-824916 Anions by E300 E300MI

Batch 824916, Chloride recovered below QC limits in the Blank Spike Duplicate. Samples affected are: 391076-002, -001, -004, -003.

Batch: LBA-825062 TDS by SM2540C None



Certificate of Analysis Summary 391076

Trident Environmental, Midland, TX

Project Name: Pride Energy Company



Project Id: State 36 #2 (API #30-025-36909) Contact: Gil Van Deventer Project Location: T19S-R37E, Sec 36, Unit Letter O ~ Lea (

Date Received in Lab: Thu Sep-23-10 04:06 pm

Report Date: 28-SEP-10

oject Location: 1195-K37E, Sec 36, Unit					Project Manager:	Brent Barron, II
	Lab Id:	391076-001	391076-002	391076-003	391076-004	
An alusia Descussed	Field Id:	MW-1	MW-2	MW-3	MW-4	
Analysis Requested	Depth:				İ	
	Matrix:	WATER.	WATER	WATER	WATER	
	Sampled:	Sep-22-10 10:55	Sep-22-10 13:30	Sep-22-10 11:30	Sep-22-10 12:00	
Anions by E300	Extracted:					
	Analyzed:	Sep-24-10 17:08	Sep-24-10 17:29	Sep-24-10 17:50	Sep-24-10 18:11	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	
Chloride		1470 25.0	923 12.5	420 10.0	669 12.5	
TDS by SM2540C	Extracted:					
	Analyzed:	Sep-27-10 16:00	Sep-27-10 16:00	Sep-27-10 16:00	Sep-27-10 16:00	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	
Total dissolved solids		3940 5.00	3080 5.00	1520 5.00	1940 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 - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron, II

Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- 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.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116





С

Project Name: Pride Energy Company

Work Order #: 391076								Pro	ject ID: S	State 36 #2	(API #30-	025-369		
Analyst: LATCOR		Da	te Prepar	ed: 09/24/201	0			Date A	nalyzed: (09/24/2010				
Lab Batch ID: 824916	Sample: 824916-1-BKS	S	Batc	h #: 1		Matrix: Water								
Units: mg/L			BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	LICATE	RECOVI	ERY STUD	Y			
Anions by E3	00 Sa	Blank ample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				Í		
Chloride		ND	100	93.8	94	100	89.3	89	5	90-110	20	L		
Analyst: WRU		Da	te Prepar	red: 09/27/201	0			Date A	nalyzed: (09/27/2010				
Lab Batch ID: 825062	Sample: 825062-1-BKS	S	Batel	h #: 1					Matrix: \	Water				
Units: mg/L			BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	LICATE	RECOVI	ERY STUD	Y			
TDS by SM254	40C Sa	Blank ample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]						
Total dissolved solids		ND	1000	922	92	1000	962	96	4	80-120	30			

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



Form 3 - MS Recoveries



Project Name: Pride Energy Company

'k Order #: 391076						
_ab Batch #: 824916			Pro	ject ID	State 36 #2	: (API #30-0
Date Analyzed: 09/24/2010	Date Prepared: 09/24/2	010	· A	nalyst: L	ATCOR	
QC- Sample ID: 390982-001 S	Batch #: 1		Ν	Aatrix: V	Vater	
Reporting Units: mg/L	MATRIX	(/ MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300		Spike Added	Spiked Sample Result	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]	[C]	נשן	70K	
Chloride	24.8	50.0	78.2	107	90-110	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

1 Jelow Reporting Limit



Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 391076

Lab Batch #: 824916				Project I	D: State 36	#2 (API #30-025-3
Date Analyzed: 09/24/2010	Date Prepar	ed: 09/24/2010	Ana	lyst:LATC	OR	
QC- Sample ID: 390982-001 D	Batch	1 #: 1	Ma	trix: Water		
Reporting Units: mg/L		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Chloride		24.8	24.5	1	20	
Lab Batch #: 825062		· · · · · · · · · · · · · · · · · · ·				·
Date Analyzed: 09/27/2010	Date Prepar	ed: 09/27/2010	Ana	lyst: WRU		
QC- Sample ID: 390982-001 D	Batch	n#: 1	Ma	trix: Water		
Reporting Units: mg/L		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C	-	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Total dissolved solids		212	220	4	30	

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

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					MA	TRIX			N	IET H	ЮD		SAM	PLING			E							ŝ	827	-	۶l	물	ŝ	17
LAB #		Ê	# CONTAINERS	Π			Τ) Î							S2		ğ		218		TCLP Semi Volatiles	9		GCMS Vol. 82608/624	ē	Moisture Content Cations (Ca. Mr. Na. K)	217	Ĩ	2	
2.21	FIELD CODE	(G)rab or (C)omp	Ī	11				Ň					[MTBE 8021B/602	18	Ĕ	0	¥ ₹	FCLP Votatiles	2	TCLP Pesticides		8	싍	Moisture Content Cations (Ca. Mo.	, IV	2 S	ĕ	
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	MW-1	G	1	X)	<u>(</u>	9/22/10	1055										Τ		Τ		X	x	L
	MW-2	G	1	X							X	< 🗌	9/22/10	1330					1					Τ	Т	Т	Τ	X	X	Т
	MW-3	G	1	X							X	(9/22/10	1130				Т	Т		П			Т	Т	Т	Т	X	x	Г
	MW-4	G	1	X							X	(9/22/10	1200					Τ		П	T	Т	Т	Т	Τ	Г	X	x	Т
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Page 10 of 11

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XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, Sari Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

client: Tradent Environmenta /G. I Van Derenter Date/Time: 9/2 3/10 4:000 pm Lab ID #: 311070 Initials: ME

Sample Receipt Checklist

1. Samples on ice?	2	Blue	Water	No	
2. Shipping container in good condition?		Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?		$\langle \cdot \rangle$	No	N/A	
4. Chain of Custody present?		Cy.	No		
5. Sample instructions complete on chain of custody?	1	Yee	No		
6. Any missing / extra samples?		Yes	No		
7. Chain of custody signed when relinquished / received?		Yes	No		
8. Chain of custody agrees with sample label(s)?		Yes	No		
9. Container labels legible and intact?		Yee	No		
10. Sample matrix / properties agree with chain of custody?		Yes	No		
11. Samples in proper container / bottle?		Yes	No		
12. Samples properly preserved?		(Yes)	No	N/A	
13. Sample container intact?		Kyes/	No		
14. Sufficient sample amount for indicated test(s)?		Yes	No		
15. All samples received within sufficient hold time?		Yes	No		
16. Subcontract of sample(s)?		Yes	No	N/A	
17. VOC sample have zero head space?		Yes	No	(NIA)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.		Cooler 4 No		Cooler 5 No.	
ibs 5 °C ibs	°c	lbs	°C	lbs	°c

Nonconformance Documentation

Date/Time:____ __ Contacted by:__ Contact:

Regarding:

Corrective Action Taken:____

Check all that apply: □Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1. □Initial and Backup Temperature confirm out of temperature conditions □Client understands and would like to proceed with analysis

Analytical Report 377874

for

Pride Energy Company

Project Manager: Matt Pride

Pride Energy Company

State 36 # 2

22-JUN-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



22-JUN-10



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

Tulsa, OK 74170

Reference: XENCO Report No: **377874 Pride Energy Company** Project Address: T19S-R37E, Sec 36, Unit Letter O ~ Lea County, NM

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 377874. 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. 377874 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 377874



ample cross Reference 377074

Pride Energy Company, Tulsa, OK

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in dur Berger

Pride Energy Company

Sample Id	Matrix	Date Collected Sample Depth	Lab Sample Id
MW-1	W	Jun-16-10 10:20	377874-001
MW-2	W	Jun-16-10 11:40	377874-002
MW-3	W	Jun-16-10 10:50	377874-003
MW-4	W	Jun-16-10 11:10	377874-004

N. E. M. E. A. C. S. C. Star



CASE NARRATIVE

Client Name: Pride Energy Company Project Name: Pride Energy Company



Project ID: State 36 # 2 Work Order Number: 377874 Report Date: 22-JUN-10 Date Received: 06/18/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-811423 Chloride by SM4500-CI- B None

Batch: LBA-811630 TDS by SM2540C None



Certificate of Analysi Immary 377874

Pride Energy Company, Tulsa, OK

Project Name: Pride Energy Company



Project Id: State 36 # 2 Contact: Matt Pride Project Location: T19S-R37E, Sec 36, Unit Letter O ~ Lea (

Date Received in Lab: Fri Jun-18-10 02:30 pm

Report Date: 22-JUN-10

,, _,, _								Project Ma	nager:	Brent Barron, II	
	Lab Id:	377874-0	001	377874-0	002	377874-(003	377874-	004		
Analysis Requested	Field Id:	MW-I	l I	MW-2	2	MW-3	3	MW-	4		
Analysis Kequestea	Depth:				1						
	Matrix:	WATE	R	WATE	R	WATE	R	WATE	ĒR		
	Sampled:	Jun-16-10	10:20	Jun-16-10	11:40	Jun-16-10	10:50	Jun-16-10	11:10		
Chloride by SM4500-CI- B	Extracted:									1	
	Analyzed:	Jun-21-10	11:55	Jun-21-10	11:55	Jun-21-10	11:55	Jun-21-10	11:55		
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL		і
Chloride		446.7	5.000	723.2	5.000	489.2	5.000	606.2	5.000		
TDS by SM2540C	Extracted:		1							· · · · · · · · · · · · · · · · · · ·	· · · * ******************************
	Analyzed:	Jun-21-10	13:00	Jun-21-10	13:00	Jun-21-10	13:00	Jun-21-10	13:00		
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	t	
Total dissolved solids		1420	15.0	2020	15.0	1440	15.0	1580	15.0	:	1

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

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Brent Barron, II

Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- 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.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

- **RL** Reporting Limit
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371

Fax (281) 240-4280 (214) 351-9139 (210) 509-3335 (813) 620-2033 (305) 823-8555 (432) 563-1713 (361) 884-9116





Project Name: Pride Energy Company

Work Order #: 377874		Pr	oject ID:		Sta	te 36 # 2
Lab Batch #: 811423	Sample: 811423-	-1-BKS	Matrix:	Water		
Date Analyzed: 06/21/2010	Date Prepared: 06/21/2	010	Analyst:	LATCOF	ł	
Reporting Units: mg/L	Batch #: 1	BLANK /	BLANK SPI	KE REC	COVERY S	STUDY
Chloride by SM4500-CI- B	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	
Chloride	ŅD	100.0	92.50	93	70-125	

Blank Spike Recovery [D] = 100*[C]/[B] Sults are based on MDL and validated for QC purposes. Below Reporting Limit





Project Name: Pride Energy Company

Work Order #: 377874 Analyst: WRU		Da	ate Prepar	ed: 06/21/201	10					State 36 # 2 06/21/2010		
Lab Batch ID: 811630	Sample: 811630-1-Bl	KS	Batch	h #: 1					Matrix: V	Water		
Units: mg/L			BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	ICATE	RECOVE	ERY STUD	Y	
TDS by SM2	2540C	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
Total dissolved solids		12.0	1000	900	90	1000	896	90	0	80-120	30	

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



Form 3 - MS MSD Recoveries



Project Name: Pride Energy Company

Work Order #: 377874						Project II	D: State 3	6 # 2			
Lab Batch ID: 811423	QC- Sample ID:	377874	-001 S	Ba	tch #:	1 Matrix	k: Water				
Date Analyzed: 06/21/2010	Date Prepared:	06/21/2	010	An	alyst:	LATCOR					
Reporting Units: mg/L		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Chloride by SM4500-CI- B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	446.7	1000	1340	89	1000	1319	87	2	70-125	25	

Matrix Spike Percent Recovery $[D] = 100^{+}(C-A)/B$ Relative Percent Difference $RPD = 200^{+}[(C-F)/(C+F)]$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

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



Sample Duplicate Recovery



1

Project Name: Pride Energy Company

Work Order #: 377874

Lab Batch #: 811630 Date Analyzed: 06/21/2010 QC- Sample ID: 377874-001 D	Date Prepared Batch #		Anal	Project I l yst: WR∪ rix: Water	D: State 36	# 2
Reporting Units: mg/L		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C	P	arent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Total dissolved solids		1420	1480	4	30	

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

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3-77874		S	L	MA	TRIX				ERVA			SAM	PLING			TPH 418.1/TX1005 / TX1005 Extended (C35)		Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 7 TCI D Metals Ag As Ba Cd Cr Pb Se Hg		SS.			3/624	GCMS Semi, Vol. 8270C/625	5	Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, H(Total Dissolved Solids (180.1 / SM2540C)	SM4500 B)	
LAB # FIELD CODE	(G)rab or (C)omp	# CONTAINERS					HCL (BTEX only)							MTBE 8021B/602	60	TX100		SA PA		TCLP Semi Volatiles	Sed es		GC/MS Vol. 8260B/624	i, Vol.	Moisture Content	B S	ved S	Chlorides (325.37	
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ONLY	(G)rab	Ö v	WATER	SOIL	AIR SLUDGE			NaHSO	H ₂ SO ₄	Щ	NONE	DATE	TIME	NTBE	BTEX 8021 B	THA	PAH 8			ICLP &	TCLP Pesticides	Ĩ	SCMS	BCMS	Moistu	Anions	Total D	Chlorid	
OI MW-1	G	1	X							X		-16-10	1020						Ť.				Ť				-	x	
07. <u>MW-2</u>	G	1	X							x	6	-16-10	1140												Τ		X	X	
03 MW-3	G	1	X							X	6	-16-10	1050														X	x	
DU MW-4	G	1	X	\square						X	6	16-10	1110														X	x	
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Page 11 of 14

Final Ver. 1.000



XENCO Laboratories

Atlanta, Boca Raton. Corpus Christi. Dallas

Houston, Mlami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: KY	ide Energy
Date/Time:	61810 1430
Lab ID # :	377874
Initials:	AL

Sample Receipt Checklist

1. Samples on ice?				Blue	Water	No		
2. Shipping container in good con	dition?			Yes	No	None		
3. Custody seals intact on shippin	g container (co	oole)) and bottles	?	(es)	No	(NYA) T		
4. Chain of Custody present?				(Yas)	No			
5. Sample instructions complete c	on chain of cus	tody?		(Yes)	No			
6. Any missing / extra samples?		·		Yes	No			
7. Chain of custody signed when	relinquished / r	eceived?		(Pes)	No			
8. Chain of custody agrees with s	ample label(s)	?	·	$\overline{\mathbf{G}}$	No			
9. Container labels legible and int	act?			(Yes)	No			
10. Sample matrix / properties agr	ee with chain o	of custody?		Yes	No			
11. Samples in proper container /	bottle?			(Yes)	No		,	
12. Samples properly preserved?				Yes	No	N/A		
13. Sample container intact?				Yes	No			
14. Sufficient sample amount for i	ndicated test(s)?		Yes	No			
15. All samples received within su	fficient hold ti	me?		Yes	No			
16. Subcontract of sample(s)?				Gyes	No	(N/A)		
17. VOC sample have zero head's	pace?			Yes	No	(N/A)		
18. Cooler 1 No. Cooler 2	No.	Cooler 3 No.		Cooler 4 No.		Cooler 5 No.		
Ibs 3.0 °C Ib	s °C	ibs	°C	lbs	⊃°	lbs	°C	
	Nonc	conformance [Docume	ntation				
Contact:	Contacted b	v:		1	Date/Time:			

Regarding:

Corrective Action Taken:

Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis

R.

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3-77874					M/		×				RVA1 HOE		Ē	SAM	PLING			/TX10							624	3270C/	S	Na. NJ	5 (<u>)</u>	SM450	~ 24 Hours
LAB#	FIELD CODE	(C)omp	VINERS					EX only)								18/602	8	/TX1005	с С	s Ag As I	ties .	i Volatiles	Icides		. 8260B/	ni Vol.			oved Sol	(325.37	od Time
(LAB USE ONLY		(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL (BTEX only)	-INO3	NaHSO4	H ₂ SO4	Ш	NONE	DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	CLP Meta	CLP Vola	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	Moisture Content Cations (Ca. Mr. Na. K)	Anions (CL SCA	Total Dissolved Solids (180.1 /	Chlorides (325.3 / SM4500 B)	Turn Around Time
01	MW-1	G	1	×			Ť	╞	Ť			x		6-16-10	1020	╡╴		-		+		F	-+	-		<u></u>	ᢡ	1	X	+-+	
02	MW-2	G	1	x			Т					x		6-16-10	1140	Γ					\square			+			┭	\top	_	x	1
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Sampler -	UPS - Bus - Other:		No	ž	No	7		25		10	100	4								_											

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XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas

Houston, Miami, Odessa, Philadelphia

Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yr	de Energy
Date/Time:	61810 1430
Lab ID # :	377874
Initials:	AL

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(es)	No	(NYA) TIL	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	(Tes)	No		
8. Chain of custody agrees with sample label(s)?	(rec)	No		
9. Container labels legible and intact?	Gres	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		·
11. Samples in proper container / bottle?	(Yes)	No		l
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Cres	No	(N/A)	
17. VOC sample have zero head space?	Yes	No	(N/A)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	•	Cooler 5 No.	
ibs 3.6 °C ibs °C ibs	°C Ibs	°C	ibs	°C

Nonconformance Documentation

Contact:______Contacted by:_____

Date/Time:

Regarding:

Corrective Action Taken:

Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis

1

Analytical Report 368017

for

Pride Energy Company

Project Manager: Matt Pride

Pride Energy Company

State 36 # 2

08-APR-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295)

0



08-APR-10



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

Tulsa, OK 74170

Reference: XENCO Report No: **368017 Pride Energy Company** Project Address: T19S-R37E, Sec 36 Unit Letter O ~ Lea County, NM

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 368017. 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. 368017 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.

Respectful

Brent Barron, II Odessa Laboratory Manager

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Samuela Cruzza Dafarrara 2/9017



Sample Cross Reference 368017

Pride Energy Company, Tulsa, OK

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Mar-31-10 16:32		368017-001
MW-2	W	Mar-31-10 17:40		368017-002
MW-3	W	Mar-31-10 16:55		368017-003
MW-4	W	Mar-31-10 17:15		368017-004

and the second


CASE NARRATIVE

Client Name: Pride Energy Company Project Name: Pride Energy Company



Project ID:State 36 # 2Work Order Number:368017

Report Date: 08-APR-10 Date Received: 04/05/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-801335 Chloride by SM4500-CI- B None

Batch: LBA-801579 TDS by SM2540C None



Certificate of Analysi immary 368017

Pride Energy Company, Tulsa, OK

Project Name: Pride Energy Company



Project Id: State 36 # 2 Contact: Matt Pride Project Location: T19S-R37E, Sec 36 Unit Letter O ~ Lea C

Date Received in Lab: Mon Apr-05-10 04:30 pm

Report Date: 08-APR-10

• 								Project Ma	nager:	Brent Barron, II
	Lab Id:	368017-0	001	368017-0	002	368017-0	003	368017-	004	
Analysis Requested	Field Id:	MW-1	l '	MW-2	2	MW-3	3	MW-	4	: · · · ·
Analysis Kequesieu	Depth:									
	Matrix:	WATE	R	WATE	R	WATE	R	WATE	ER	
	Sampled:	Mar-31-10	16:32	Mar-31-10	17:40	Mar-31-10	16:55	Mar-31-10	17:15	•
Chloride by SM4500-CI- B	Extracted:									· ·
	Analyzed:	Apr-07-10	10:45	Apr-07-10	10:45	Apr-07-10	10:45	Apr-07-10	10:45	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	
Chloride		467.9	5.000	691.3	5.000	489.2	5.000	691.3	5.000	1
TDS by SM2540C	Extracted:			5.18.4						t
	Analyzed:	Apr-06-10	16:15	Apr-06-10	16:15	Apr-06-10	16:15	Apr-06-10	16:15	,
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	:
Total dissolved solids		1330	5.00	1520	5.00	1230	5.00	1560	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 - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron, II

Odessa Laboratory Manager





- 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 and above the SQL.
- 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.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- * 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, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North 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
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116





Project Name: Pride Energy Company

Work Order #: 368017		Project ID:										
Lab Batch #: 801335 Date Analyzed: 04/07/2010	Sample: 801335- Date Prepared: 04/07/20		Matrix: Analyst:	Water LATCOF	Ł							
Reporting Units: mg/L	Batch #: 1											
Chloride by SM4500-CI- B	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags						
Analytes	[A]	[B]	Result [C]	%R [D]	%R							
Chloride	ND	100.0	92.52	93	70-125							

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

Below Reporting Limit

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Project Name: Pride Energy Company

Work Order #: 368017 Analyst: WRU		Da	ite Prepar	ed: 04/06/201	0				•	State 36 # 2 04/06/2010		
Lab Batch ID: 801579	Sample: 801579-1-BK	(S	Batch	n #: 1					Matrix: `	Water		
Units: mg/L			BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	ICATE	RECOVI	ERY STUD	Ŷ	
TDS by SM25	540C s	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Becult (El	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
Total dissolved solids		ND	1000	964	96	1000	950	95	1	80-120	30	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ 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 - M' **ASD Recoveries**



1

Project Name: Pride Energy Company

Work Order #: 368017						Project II	D: State 3	6 # 2			
Lab Batch ID: 801335	QC- Sample ID:	368017	-001 S	Ba	tch #:	1 Matri	k: Water				
Date Analyzed: 04/07/2010	Date Prepared:	04/07/2	010	An	alyst:	LATCOR					
Reporting Units: mg/L		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY]
Chloride by SM4500-CI- B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	467.9	1000	1489	102	1000	1500	103	1	70-125	25	

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

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

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



Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 368017

Lab Batch #: 801579 Date Analyzed: 04/06/2010 QC- Sample ID: 367620-001 D	Date Prepared: 04/06/201 Batch #: 1	0 Ana	Project I lyst: WRU trix: Water		# 2
Reporting Units: mg/L	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C	Parent Sample Result	e Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte	[A]	[B]			
Total dissolved solids	51400	56000	9	30	

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

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				Γ	M/	ATRI	X				RV/ THO		Έ	SAMP	PLING	1		TX10		S	a Cd				PC PC	2004		Ŷ	33 H	ds (16	M450	24 H
LAB # 368017 (LAB USE ONLY	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCI (BTEX only)	HNO.	NaHSO.	H ₂ SO ₄	ICE	NONE	DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As B	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCI D Daeticidae		GCAAS VAL B260B4	GCIMS Sami Vol 8270C/825	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, CO3, HCO3)	Total Dissolved Solids (160.1 /	UNIONDES (325.3 / 5M420U B)	Tum Around Time ~ 24 Hours
61	MW-1	G	1	x				ϯ		T		x		3/31/10	1632							Ť	Ť			T	T	\square		x	x	
07	MW-2	G	1	X					Τ			x		3/31/10	1740												T		\Box	x	×	
03	MW-3	G	1	X				Т	T	Τ	Т	X		3/31/10	1655								Τ	Τ		Τ	Т	\Box	\square	x	x	
04	MW-4	G	1	x		Π		Τ	Ĩ	Τ	Τ	X		3/31/10	1715		\square				Т	Τ	Т	Τ	Т	T	Т	\square	\Box	x	x	
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Page 11 of 12

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Final Ver. 1.000

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Pride Energy
Date/ Time:	4.5.10 16:30
Lab ID # :	368017
Initials:	AL

Sample Receipt Checklist

			Client	Initia
er/ cooler?		No	/-/ °C	
od condition?	(Yes)	No		
shipping container/ cooler?	Tes	No	Not Present	
sample bottles/ container?	les	No	Not Present	
nt?	Yes	No		
nplete of Chain of Custody?	Yes	No		
d when relinguished/ received?	Yes	No		
	Yes	No	ID written on Cont./ Lid	
e and intact?	(Tes	No	Not Applicable	
ies agree with Chain of Custody?	Tes	No		
	(Yes)	No		
ainer/ bottle?	Yes	No	See Below	
		No	See Below	
	Yes	No		
nted on Chain of Custody?		No		
	CYES	No		
	(Yes)	No	See Below	
		No	See Below	
	Yes	No	Not Applicable	
	Yes	No	Not Applicable	
	mentation		Date/ Time:	
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	er/ cooler? bod condition? shipping container/ cooler? sample bottles/ container? nt? nplete of Chain of Custody? d when relinquished/ received? s with sample label(s)? e and intact? ies agree with Chain of Custody? ELOT? tainer/ bottle? erved? nted on Chain of Custody? d on Chain of Custody? d on Chain of Custody? unt for indicated test(s)? rithin sufficient hold time? (s)? ro headspace? Variance Docu Contacted by:	odd condition? Yes shipping container/ cooler? Yes sample bottles/ container? Yes nt? Yes nplete of Chain of Custody? Yes d when relinquished/ received? Yes s with sample labe!(s)? Yes e and intact? Yes ies agree with Chain of Custody? Yes ELOT? Yes ainer/ bottle? Yes erved? Yes inted on Chain of Custody? Yes inted on Chain of Custody? Yes inthin sufficient hold time? Yes within sufficient hold time? Yes voriaince Documentation Variaince Documentation	od condition? Yes No shipping container/ cooler? Yes No sample bottles/ container? Yes No nt? Yes No nplete of Chain of Custody? Yes No d when relinquished/ received? Yes No s with sample labe!(s)? Yes No e and intact? Yes No ies agree with Chain of Custody? Yes No ELOT? Yes No ainer/ bottle? Yes No erved? Yes No d on Chain of Custody? Yes No inted on Chain of Custody? Yes No unt for indicated test(s)? Yes No (s)? Yes No ro headspace? Yes No Variance Documentation Variance Documentation	ar/ cooler? Yes No /_/ °C ind condition? Yes No No No shipping container/ cooler? Yes No Not Present sample bottles/ container? Yes No Not Present nnt? Yes No Not Present nnt? Yes No Not Present nnt? Yes No No inplete of Chain of Custody? Yes No Index of the second se

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

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