

1R - 501

AGWMR

01/21/2011



Certified Mail Return Receipt No. 7009 2250 0001 4928 0063

January 21, 2011

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

Table 1: Summary of Groundwater Monitoring Results

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	BTEX (mg/L)
MW-1	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
	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	
MW-2	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
	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	---
MW-3	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
	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	---
MW-4	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
	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	---

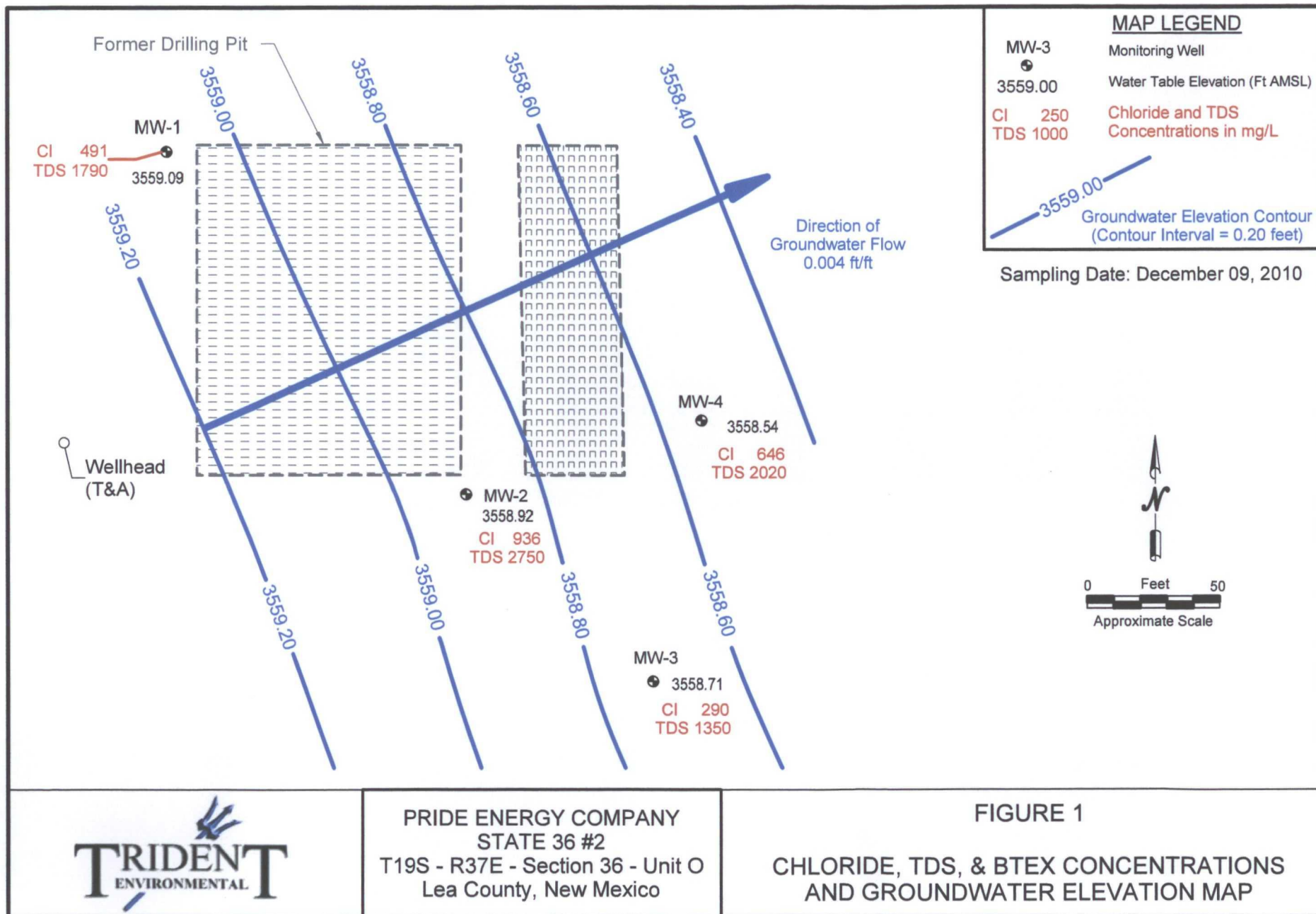


Figure 2a: Chloride Concentrations vs Time

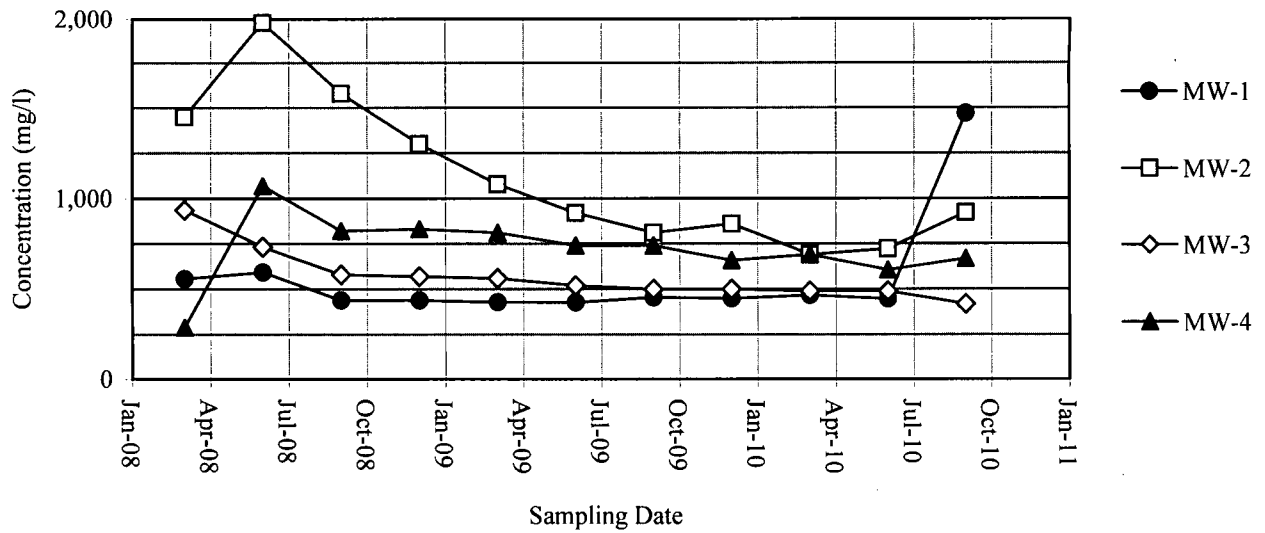


Figure 2b: TDS Concentrations vs Time

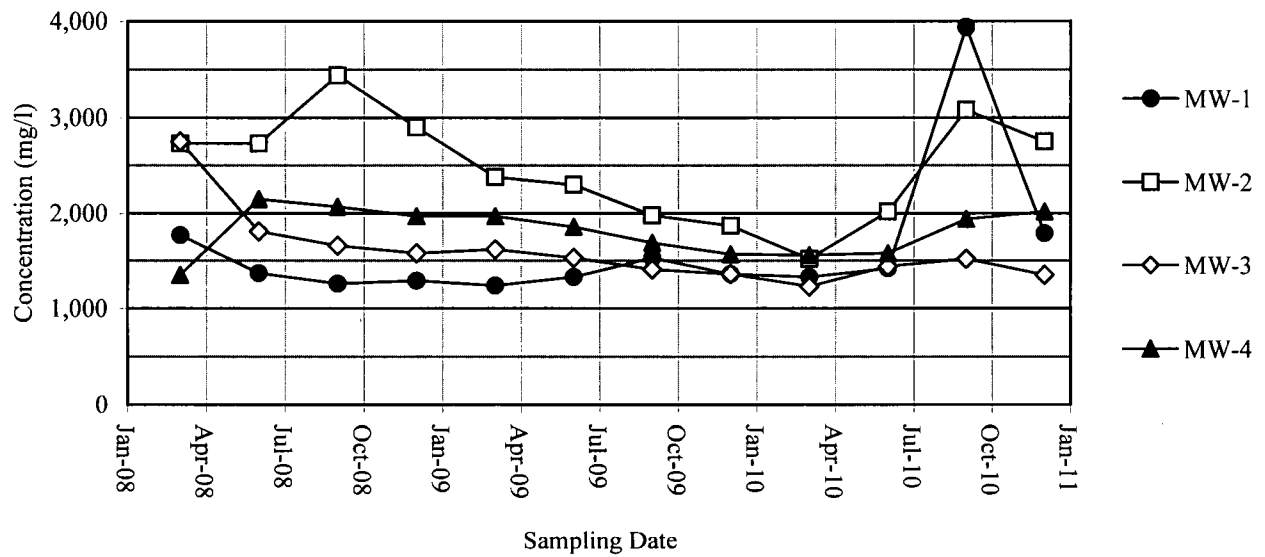
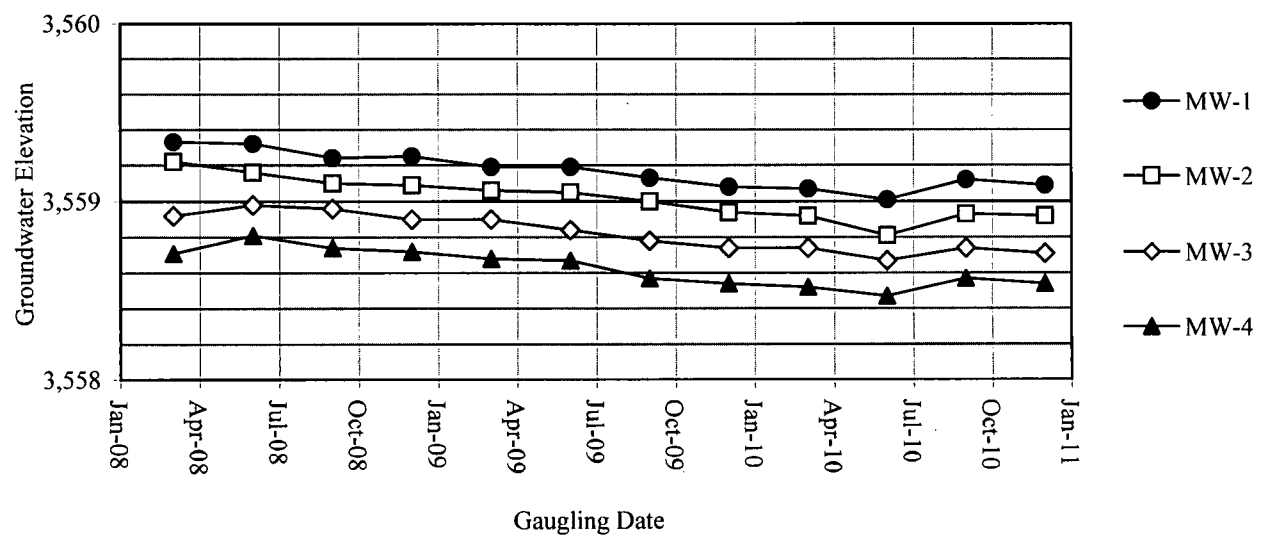


Figure 2c: Groundwater Elevations (Ft AMSL) vs Time



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,



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

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

SAMPLER: Gil Van Deventer

PURGING METHOD: ☒ Hand Bailed ☒ Pump, Type: Proactive SuperTwister Purge Pump

SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

SPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

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	pH	Purge Method	PHYSICAL APPEARANCE AND REMARKS
First	03/31/10	16:32	MW-1	44.14	52.37	8.23	0.16	1.3	5	3.8	19.5	1.99	7.82	Hand Bail	Some silt/sand but cleared during purge
		17:40	MW-2	43.55	57.61	14.06	0.16	2.2	7	3.1	19.1	2.59	7.58		Some silt/sand but cleared during purge
		16:55	MW-3	44.07	53.83	9.76	0.16	1.6	5	3.2	19.4	2.17	7.98		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
Second	06/15/10	10:20	MW-1	44.20	52.37	8.17	0.16	1.3	5	3.8	21.0	2.30	7.71	Hand Bail	Some silt/sand but cleared during purge
		11:40	MW-2	43.66	57.61	13.95	0.16	2.2	8	3.6	20.1	2.86	7.78		Some silt/sand but cleared during purge
		10:50	MW-3	44.14	53.83	9.69	0.16	1.6	5	3.2	20.2	2.25	7.74		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
Third	09/22/10	10:55	MW-1	44.09	52.37	8.28	0.16	1.3	16	12.1	19.7	4.82	7.19	Purge Pump	Some silt/sand but cleared during purge
		13:30	MW-2	43.54	57.61	14.07	0.16	2.3	22	9.8	19.3	3.74	7.79		Some silt/sand but cleared during purge
		11:30	MW-3	44.07	53.83	9.76	0.16	1.6	10	6.4	19.7	2.10	7.91		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
Fourth	12/13/10	14:53	MW-1	44.12	52.37	8.25	0.16	1.3	8	6.1	18.5	2.87	7.48	Purge Pump	Some silt/sand but cleared during purge
		16:00	MW-2	43.55	57.61	14.06	0.16	2.2	14	6.2	18.1	3.79	7.48		Some silt/sand but cleared during purge
		15:18	MW-3	44.10	53.83	9.73	0.16	1.6	8	5.1	18.7	1.50	7.34		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.

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

One of the locks combo is 5010

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)

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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)



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 # 2

Work 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 Analysis Summary 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 Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	400565-001	400565-002	400565-003	400565-004		
	<i>Field Id:</i>	MW-1	MW-2	MW-3	MW-4		
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER		
	<i>Sampled:</i>	Dec-13-10 14:53	Dec-13-10 16:00	Dec-13-10 15:18	Dec-13-10 15:37		
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Dec-14-10 15:10	Dec-14-10 15:10	Dec-14-10 15:10	Dec-14-10 15:10		
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
Chloride		491 12.5	936 25.0	290 10.0	646 12.5		
TDS by SM2540C	<i>Extracted:</i>						
	<i>Analyzed:</i>	Dec-14-10 16:00	Dec-14-10 16:00	Dec-14-10 16:00	Dec-14-10 16:00		
	<i>Units/RL:</i>	mg/L 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.

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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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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



BS / BSD Recoveries



Project Name: Pride Energy Company

Work Order #: 400565

Analyst: LATCOR

Date Prepared: 12/14/2010

Project ID: State 36 # 2

Date Analyzed: 12/14/2010

Lab Batch ID: 835912

Sample: 835912-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Anions by E300	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
Chloride	ND	10.0	9.33	93	10	9.44	94	1	80-120	20	

Analyst: WRU

Date Prepared: 12/14/2010

Date Analyzed: 12/14/2010

Lab Batch ID: 835988

Sample: 835988-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	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

Project ID: State 36 # 2

Analyst: LATCOR

QC- Sample ID: 400475-001 S

Batch #: 1

Matrix: Water

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	129	100	262	133	80-120	X

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

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 400565

Lab Batch #: 835912

Date Analyzed: 12/14/2010 15:10

Date Prepared: 12/14/2010

Project ID: State 36 # 2

Analyst: LATCOR

QC- Sample ID: 400475-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	129	130	1	20	

Lab Batch #: 835988

Date Analyzed: 12/14/2010 16:00

Date Prepared: 12/14/2010

Analyst: WRU

QC- Sample ID: 400564-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
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

Final 1.000

**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: Trident LNW
Date/Time: 12.14.10 12:30
Lab ID #: 400565
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	N/A	
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?	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	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.
lbs 2.6 °C	lbs °C	lbs °C	lbs °C	lbs °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

Analytical Report 391076

for

Trident Environmental

Project Manager: Gil Van Deventer

Pride Energy Company

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

28-SEP-10



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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)

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)



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

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 C

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


Report Date: 28-SEP-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	391076-001	391076-002	391076-003	391076-004		
	Field Id:	MW-1	MW-2	MW-3	MW-4		
	Depth:						
	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.

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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	(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



BS / BSD Recoveries



Project Name: Pride Energy Company

Work Order #: 391076

Analyst: LATCOR

Date Prepared: 09/24/2010

Project ID: State 36 #2 (API #30-025-36909)

Date Analyzed: 09/24/2010

Lab Batch ID: 824916

Sample: 824916-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Anions by E300	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
Chloride	ND	100	93.8	94	100	89.3	89	5	90-110	20	L

Analyst: WRU

Date Prepared: 09/27/2010

Date Analyzed: 09/27/2010

Lab Batch ID: 825062

Sample: 825062-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	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	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

Order #: 391076

Lab Batch #: 824916

Project ID: State 36 #2 (API #30-025-36909)

Date Analyzed: 09/24/2010

Date Prepared: 09/24/2010

Analyst: LATCOR

QC- Sample ID: 390982-001 S

Batch #: 1

Matrix: Water

Reporting Units: mg/L

Inorganic Anions by EPA 300		MATRIX / MATRIX SPIKE RECOVERY STUDY				
Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R
Chloride		24.8	50.0	78.2	107	90-110

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

Below Reporting Limit



Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 391076

Lab Batch #: 824916

Project ID: State 36 #2 (API #30-025-36909)

Date Analyzed: 09/24/2010

Date Prepared: 09/24/2010

Analyst: LATCOR

QC- Sample ID: 390982-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	24.8	24.5	1	20	

Lab Batch #: 825062

Analyst: WRU

Date Analyzed: 09/27/2010

Date Prepared: 09/27/2010

QC- Sample ID: 390982-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
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



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: Trident Environmental / G.I. Van Derenter
Date/Time: 9/23/10 4:00 pm
Lab ID #: 311076
Initials: ME

Sample Receipt Checklist

1. Samples on ice?	<u>Blue</u>	Water	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>5.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °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

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 (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), 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.

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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



Pride Energy Company, Tulsa, OK

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



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-Cl- B

None

Batch: LBA-811630 TDS by SM2540C

None



Certificate of Analysis Summary 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 C

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


Report Date: 22-JUN-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	377874-001	377874-002	377874-003	377874-004		
	<i>Field Id:</i>	MW-1	MW-2	MW-3	MW-4		
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER		
	<i>Sampled:</i>	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	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jun-21-10 11:55	Jun-21-10 11:55	Jun-21-10 11:55	Jun-21-10 11:55		
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
Chloride		446.7 5.000	723.2 5.000	489.2 5.000	606.2 5.000		
TDS by SM2540C	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jun-21-10 13:00	Jun-21-10 13:00	Jun-21-10 13:00	Jun-21-10 13:00		
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL		
Total dissolved solids		1420 15.0	2020 15.0	1440 15.0	1580 15.0		

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	(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



Blank Spike Recovery



Project Name: Pride Energy Company

Work Order #: 377874

Project ID:

State 36 # 2

Lab Batch #: 811423

Sample: 811423-1-BKS

Matrix: Water

Date Analyzed: 06/21/2010

Date Prepared: 06/21/2010

Analyst: LATCOR

Reporting Units: mg/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

Chloride by SM4500-CI- B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	100.0	92.50	93	70-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

Results are based on MDL and validated for QC purposes.

Below Reporting Limit



BS / BSD Recoveries



Project Name: Pride Energy Company

Work Order #: 377874

Analyst: WRU

Date Prepared: 06/21/2010

Project ID: State 36 # 2

Date Analyzed: 06/21/2010

Lab Batch ID: 811630

Sample: 811630-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	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
Analytes											
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 ID: State 36 # 2

Lab Batch ID: 811423

QC- Sample ID: 377874-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 06/21/2010

Date Prepared: 06/21/2010

Analyst: LATCOR

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Chloride by SM4500-CI- B 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	446.7	1000	1340	89	1000	1319	87	2	70-125	25	

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$
Relative Percent Difference $RPD = 200 \cdot [(C-F)/(C+F)]$

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

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



Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 377874

Lab Batch #: 811630

Project ID: State 36 # 2

Date Analyzed: 06/21/2010

Date Prepared: 06/21/2010

Analyst: WRU

QC- Sample ID: 377874-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
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

**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: Pride Energy
Date/Time: 6.18.10 14.30
Lab ID #: 377874
Initials: AL

Sample Receipt Checklist

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

**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: Pride Energy
Date/Time: 6-18-10 14:30
Lab ID #: 377874
Initials: AL

Sample Receipt Checklist

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

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)

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Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
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Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

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Xenco-Boca Raton (EPA Lab Code: FL00449):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295)



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.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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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



CASE NARRATIVE

Client Name: Pride Energy Company

Project Name: Pride Energy Company



Project ID: State 36 # 2

Work 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-Cl- B

None

Batch: LBA-801579 TDS by SM2540C

None



Certificate of Analysis Summary 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 Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	368017-001	368017-002	368017-003	368017-004		
	<i>Field Id:</i>	MW-1	MW-2	MW-3	MW-4		
	<i>Depth:</i>						
	<i>Matrix:</i>	WATER	WATER	WATER	WATER		
	<i>Sampled:</i>	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	<i>Extracted:</i>						
	<i>Analyzed:</i>	Apr-07-10 10:45	Apr-07-10 10:45	Apr-07-10 10:45	Apr-07-10 10:45		
	<i>Units/RL:</i>	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		
TDS by SM2540C	<i>Extracted:</i>						
	<i>Analyzed:</i>	Apr-06-10 16:15	Apr-06-10 16:15	Apr-06-10 16:15	Apr-06-10 16:15		
	<i>Units/RL:</i>	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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 5757 NW 158th St, Miami Lakes, FL 33014
 12600 West I-20 East, Odessa, TX 79765
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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Blank Spike Recovery



Project Name: Pride Energy Company

Work Order #: 368017

Project ID:

State 36 # 2

Lab Batch #: 801335

Sample: 801335-1-BKS

Matrix: Water

Date Analyzed: 04/07/2010

Date Prepared: 04/07/2010

Analyst: LATCOR

Reporting Units: mg/L

Batch #: 1

BLANK / BLANK SPIKE RECOVERY STUDY

Chloride by SM4500-CI- B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
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



BS / BSD Recoveries



Project Name: Pride Energy Company

Work Order #: 368017

Analyst: WRU

Date Prepared: 04/06/2010

Project ID: State 36 # 2

Date Analyzed: 04/06/2010

Lab Batch ID: 801579

Sample: 801579-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	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
Analytes											
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 MSD Recoveries



Project Name: Pride Energy Company

Work Order #: 368017

Project ID: State 36 # 2

Lab Batch ID: 801335

QC- Sample ID: 368017-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 04/07/2010

Date Prepared: 04/07/2010

Analyst: LATCOR

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by SM4500-CI- B 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	467.9	1000	1489	102	1000	1500	103	1	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



Project Name: Pride Energy Company

Work Order #: 368017

Lab Batch #: 801579

Project ID: State 36 # 2

Date Analyzed: 04/06/2010

Date Prepared: 04/06/2010

Analyst: WRU

QC- Sample ID: 367620-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
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

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 Initials
#1	Temperature of container/ cooler?	<u>(Yes)</u>	No	<u>1.1</u> °C
#2	Shipping container in good condition?	<u>(Yes)</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	<u>(Yes)</u>	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	<u>(Yes)</u>	No	Not Present
#5	Chain of Custody present?	<u>(Yes)</u>	No	
#6	Sample instructions complete of Chain of Custody?	<u>(Yes)</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>(Yes)</u>	No	
#8	Chain of Custody agrees with sample label(s)?	<u>(Yes)</u>	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<u>(Yes)</u>	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<u>(Yes)</u>	No	
#11	Containers supplied by ELOT?	<u>(Yes)</u>	No	
#12	Samples in proper container/ bottle?	<u>(Yes)</u>	No	See Below
#13	Samples properly preserved?	<u>(Yes)</u>	No	See Below
#14	Sample bottles intact?	<u>(Yes)</u>	No	
#15	Preservations documented on Chain of Custody?	<u>(Yes)</u>	No	
#16	Containers documented on Chain of Custody?	<u>(Yes)</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>(Yes)</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>(Yes)</u>	No	See Below
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>
#20	VOC samples have zero headspace?	Yes	No	<u>Not Applicable</u>

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

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