

AP-76

**Pride Energy
South Four Lakes #13**

**Annual Report
2013**

Delivery Confirmation No.

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March 24, 2014

Mr. Jim Griswold
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**RE: 2013 Annual Groundwater Monitoring Report
South Four Lakes #13 Site (AP-76)
T12S-R34E-Section 1, Unit Letter L, Lea County, New Mexico**

Dear Mr. von Gonten:

As agent for Pride Energy Company, Trident Environmental submits this *2013 Annual Groundwater Monitoring Report* for the above-referenced site.

Groundwater Sampling Procedures

During each quarterly sampling event the two monitoring wells (MW-1 and MW-2) were gauged for depth to groundwater using an electronic water level indicator immediately prior to purging operations. A minimum of three well volumes of groundwater was purged from each monitoring well using a 3-stage submersible pump which was decontaminated using an Alconox solution and a distilled water rinse between sampling points. Groundwater parameters (pH, temperature, and conductivity) were measured using a Hanna Model 98130 multimeter and recorded on a well sample data form. At the end of purging, water samples for each monitoring well were transferred into 500 milliliter (ml) plastic containers for laboratory analysis of chloride using EPA Method E300.1 and TDS using EPA Method 160.1. For each set of samples, chain of custody forms documenting sample identification numbers, collection times, and delivery times to the laboratory were completed. All water samples were placed in an ice-filled cooler immediately after collection and transported to Permian Basin Environmental Lab (Midland, Texas) for analysis.

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 map showing the most recent groundwater elevation and the chloride/TDS concentrations in monitoring wells MW-1 and MW-2 is presented as Figure 1.

South Four Lakes #13 Site (AP-76)
2013 Annual Groundwater Monitoring Report

Groundwater Depth, Elevations, Hydraulic Gradient and Flow Direction

Depth to groundwater at the site is approximately 27 feet (ft) below ground surface with a groundwater gradient direction trending towards the southeast and a hydraulic gradient of approximately 0.004 ft/ft (Figure 1). As displayed in Figure 2, which graphs the change in groundwater elevation since 2008 at monitoring wells MW-1 and MW-2, the water table elevation has been steadily declining about 0.4 ft/year. Groundwater depths and gradient patterns are consistent with the prevailing water table conditions in the area.

Groundwater Quality Conditions

The constituents of concern in groundwater are chloride and TDS as they are above the New Mexico's Water Quality Control Commission (WQCC) standards, of 250 mg/L and 1,000 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 discontinued. The site groundwater monitoring map (Figure 1) includes the most recent chloride and TDS concentrations. Graphs depicting chloride and TDS concentrations at monitoring wells MW-1 and MW-2 since 2008 are presented in Figures 3 and 4, respectively.

Pride Energy Company plans to continue quarterly ground water monitoring activities and submit an annual groundwater monitoring report next year.

We look forward to working with you on this project. If you have any questions or comments you may contact me at 432.638.8740 (gil@trident-environmental.com) or Matt Pride at 918.524.9200 (mattp@pride-energy.com).

Respectfully,



Gilbert Van Deventer, REM, PG
Trident Environmental

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

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

TABLE 1
Summary of Groundwater Monitoring Results

FIGURE 1
Site Map with Groundwater Monitoring Results

FIGURE 2
Groundwater Elevations versus Time Graph

FIGURE 3
Chloride Concentrations Versus Time Graph

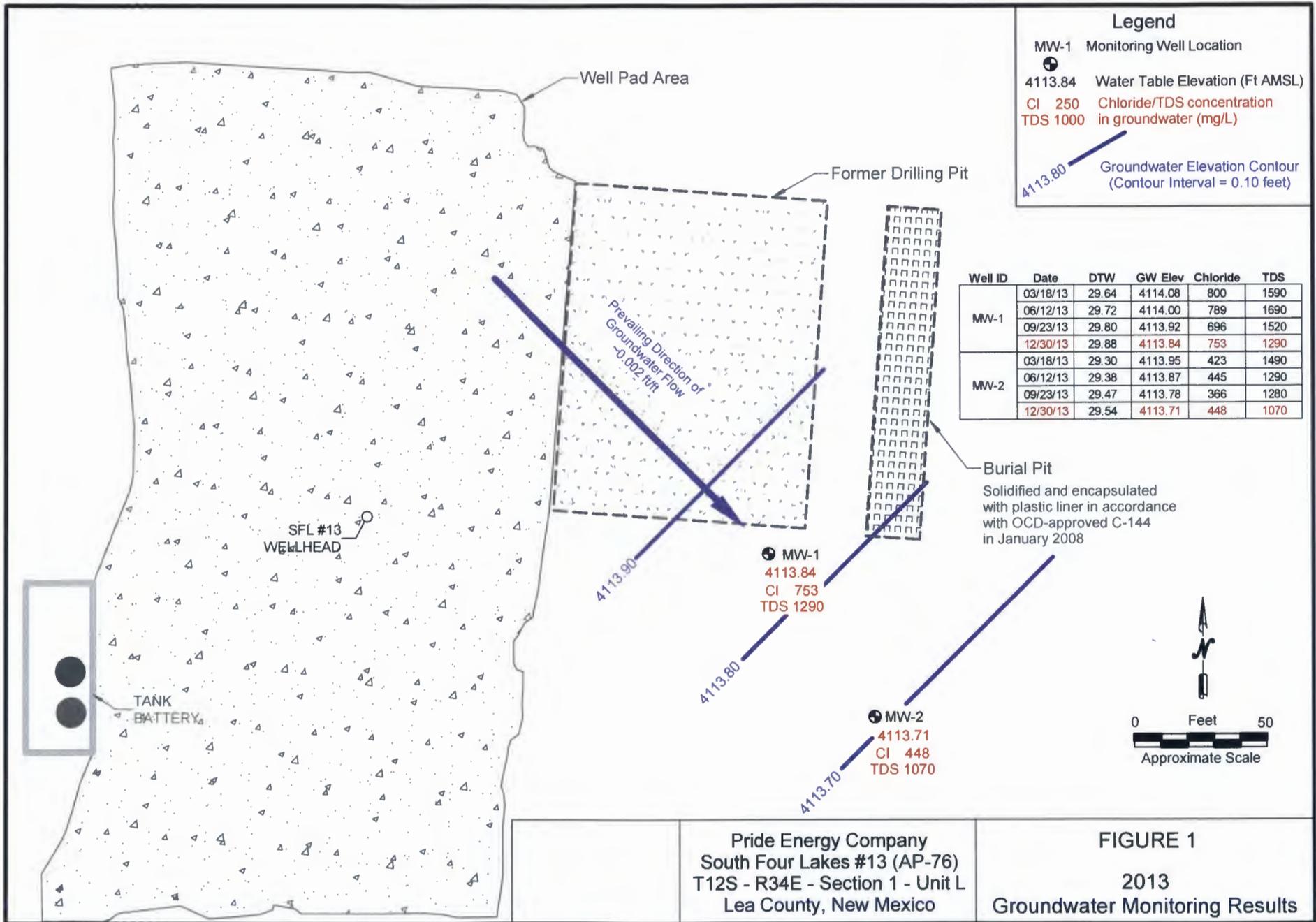
FIGURE 4
TDS Concentrations Versus Time Graph

WELL SAMPLING DATA FORM

Table 1
Summary of Groundwater Monitoring Results
South Four Lakes #13 Site (AP-76)

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-1	01/23/08	27.5	4116.22	1,330	NA	---	---	---	---
	03/13/08	27.63	4116.09	665	1,461	<0.001	<0.002	<0.001	<0.003
	06/19/08	27.88	4115.84	736	1,560	---	---	---	---
	09/09/08	28.05	4115.67	760	1,790	<0.001	<0.001	<0.001	<0.003
	12/08/08	28.11	4115.61	710	1,720	<0.001	<0.001	<0.001	<0.003
	03/18/09	28.28	4115.44	750	1,770	<0.001	<0.001	<0.001	<0.003
	06/17/09	28.46	4115.26	760	1,830	<0.001	<0.001	<0.001	<0.003
	09/21/09	28.49	4115.23	1,040	2,220	<0.001	<0.001	<0.001	<0.003
	12/11/09	28.55	4115.17	820	1,930	<0.001	<0.001	<0.001	<0.003
	03/24/10	28.65	4115.07	780	1,820	---	---	---	---
	06/15/10	28.75	4114.97	940	2,150	---	---	---	---
	09/13/10	28.82	4114.90	1,080	2,280	---	---	---	---
	12/13/10	28.88	4114.84	813	2,170	---	---	---	---
	03/17/11	28.97	4114.75	1,110	3,220	---	---	---	---
	06/29/11	29.12	4114.60	994	2,260	---	---	---	---
	09/28/11	29.19	4114.53	1,170	2,630	---	---	---	---
	12/13/11	29.25	4114.47	1,170	2,290	---	---	---	---
	03/29/12	29.32	4114.40	1,040	2,560	---	---	---	---
	06/19/12	29.38	4114.34	1,280	1,820	---	---	---	---
	09/26/12	29.53	4114.19	935	1,930	---	---	---	---
12/27/12	29.59	4114.13	636	1,630	---	---	---	---	
03/18/13	29.64	4114.08	800	1,590	---	---	---	---	
06/12/13	29.72	4114.00	789	1,690	---	---	---	---	
09/23/13	29.80	4113.92	696	1,520	---	---	---	---	
12/30/13	29.88	4113.84	753	1,290	---	---	---	---	
MW-2	06/19/08	27.54	4115.71	320	976	---	---	---	---
	09/09/08	27.71	4115.54	172	848	<0.001	<0.001	<0.001	<0.003
	12/08/08	27.80	4115.45	164	732	<0.001	<0.001	<0.001	<0.003
	03/18/09	27.95	4115.30	168	720	<0.001	<0.001	<0.001	<0.003
	06/17/09	28.19	4115.06	188	769	<0.001	<0.001	<0.001	<0.003
	09/21/09	28.15	4115.10	240	747	<0.001	<0.001	<0.001	<0.003
	12/11/09	28.21	4115.04	220	866	<0.001	<0.001	<0.001	<0.003
	03/24/10	28.30	4114.95	232	842	---	---	---	---
	06/15/10	28.41	4114.84	220	870	---	---	---	---
	09/13/10	28.50	4114.75	260	935	---	---	---	---
	12/13/10	28.54	4114.71	173	876	---	---	---	---
	03/17/11	28.62	4114.63	217	980	---	---	---	---
	06/29/11	28.76	4114.49	234	860	---	---	---	---
	09/28/11	28.85	4114.40	280	922	---	---	---	---
	12/13/11	28.90	4114.35	313	1,230	---	---	---	---
	03/29/12	28.98	4114.27	320	1,350	---	---	---	---
	06/19/12	29.04	4114.21	373	970	---	---	---	---
	09/26/12	29.19	4114.06	365	1,310	---	---	---	---
	12/27/12	29.24	4114.01	358	1,240	---	---	---	---
	03/18/13	29.30	4113.95	423	1,490	---	---	---	---
06/12/13	29.38	4113.87	445	1,290	---	---	---	---	
09/23/13	29.47	4113.78	366	1,280	---	---	---	---	
12/30/13	29.54	4113.71	448	1,070	---	---	---	---	
WQCC Standards				250	1,000	0.01	0.75	0.75	0.62

Total Dissolved Solids (TDS), chloride, sulfate, and BTEX concentrations listed in milligrams per liter (mg/L)
 Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.
 BTOC - Below Top of Casing; Elevations and relative eastings/northings surveyed by Trident Environmental
 NA Indicates parameter was not analyzed for this constituent.



Pride Energy Company
South Four Lakes #13 (AP-76)
T12S - R34E - Section 1 - Unit L
Lea County, New Mexico

FIGURE 1
2013
Groundwater Monitoring Results

WELL SAMPLING DATA FORM



CLIENT: Pride Energy Company
 SITE NAME: South Four Lakes #13
 SITE LOCATION: T12S-R34E-Sec1 Unit Letter L ~ Lea County, NM
 SAMPLER: Gil Van Deventer

PURGING METHOD: Hand Bailed Pump, Type: Whaler Model WP-9012 Mega Purger (12-volt submersible pump)

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

DISPOSAL 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. °F	Cond. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
First	3/18/2013	12:40	MW-1	29.64	43.26	13.62	0.16	2.2	15	6.9	65.6	2.66	7.04	Cloudy but cleared quickly during purge
	3/18/2013	12:00	MW-2	29.30	42.10	12.80	0.16	2.0	15	7.3	66.4	1.82	6.73	Cloudy but cleared quickly during purge
Second	6/12/2013	10:30	MW-1	29.72	43.26	13.54	0.16	2.2	15	6.9	69.0	2.51	7.33	Cloudy but cleared quickly during purge
	6/12/2013	9:30	MW-2	29.38	42.10	12.72	0.16	2.0	15	7.4	70.0	1.77	6.98	Cloudy but cleared quickly during purge
Third	9/23/2013	13:00	MW-1	29.80	43.26	13.46	0.16	2.2	10	4.6	67.0	2.44	7.52	Whitish then cleared during purge
	9/23/2013	12:00	MW-2	29.47	42.10	12.63	0.16	2.0	10	4.9	67.0	1.75	7.96	Whitish then cleared during purge
Fourth	12/30/2013	12:00	MW-1	29.88	43.26	13.38	0.16	2.1	10	4.7	62.7	2.38	6.85	Cloudy but cleared quickly during purge
	12/30/2013	11:00	MW-2	29.54	42.10	12.56	0.16	2.0	10	5.0	62.5	1.82	6.48	Cloudy but cleared quickly during purge

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

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

Delivered samples to the analytical laboratory for chloride and TDS analysis.

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Gilbert Vandeventer
Trident Environmental
P.O. Box 12177
Odessa, TX 79768

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Location: T12S-R34E-Sec1 Unit Letter L ~ Lea County, NM
Lab Order Number: 3C20001



NELAP/TCEQ # T104704156-12-1

Report Date: 03/29/13

Trident Environmental
P.O. Box 12177
Odessa TX, 79768

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	3C20001-01	Water	03/18/13 12:40	03-20-2013 12:30
MW-2	3C20001-02	Water	03/18/13 12:00	03-20-2013 12:30

**General Chemistry Parameters by EPA / Standard Methods
Permian Basin Environmental Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (3C20001-01) Water									
Chloride	800	12.5	mg/L	25	EC32601	03/26/13	03/26/13	EPA 300.0	
Total Dissolved Solids	1590	10.0	"	1	EC32703	03/25/13	03/25/13	EPA 160.1	
MW-2 (3C20001-02) Water									
Chloride	423	12.5	mg/L	25	EC32601	03/26/13	03/26/13	EPA 300.0	
Total Dissolved Solids	1490	10.0	"	1	EC32703	03/25/13	03/25/13	EPA 160.1	

Trident Environmental
P.O. Box 12177
Odessa TX, 79768

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32601 - *** DEFAULT PREP ***										
Blank (EC32601-BLK1) Prepared & Analyzed: 03/26/13										
Chloride	ND	0.500	mg/L							
LCS (EC32601-BS1) Prepared & Analyzed: 03/26/13										
Chloride	10.9		mg/L	10.0		109	80-120			
LCS Dup (EC32601-BSD1) Prepared & Analyzed: 03/26/13										
Chloride	11.0		mg/L	10.0		110	80-120	0.621	20	
Duplicate (EC32601-DUP1) Source: 3C20001-01 Prepared & Analyzed: 03/26/13										
Chloride	801	12.5	mg/L		800			0.137	20	
Matrix Spike (EC32601-MS1) Source: 3C20001-01 Prepared & Analyzed: 03/26/13										
Chloride	1100	12.5	mg/L	300	800	102	80-120			
Batch EC32703 - *** DEFAULT PREP ***										
Blank (EC32703-BLK1) Prepared & Analyzed: 03/25/13										
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EC32703-DUP1) Source: 3C20001-01 Prepared & Analyzed: 03/25/13										
Total Dissolved Solids	1580	10.0	mg/L		1590			1.01	20	

Trident Environmental
P.O. Box 12177
Odessa TX, 79768

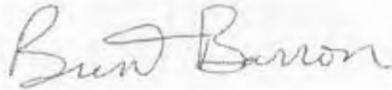
Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

3/29/2013

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-661-4184.

Permian Basin Environmental Lab

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Matt Pride
Pride Energy Company
P.O. BOX 701950
Tulsa, OK 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Location: T12S-R34E-Sec1 Unit Letter L ~ Lea County, NM

Lab Order Number: 3F14005



NELAP/TCEQ # T104704156-12-1

Report Date: 06/24/13

Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	3F14005-01	Water	06/12/13 10:30	06-14-2013 14:18
MW-2	3F14005-02	Water	06/12/13 09:30	06-14-2013 14:18

Pride Energy Company P.O. BOX 701950 Tulsa OK, 74170-1950	Project: Pride Energy Company Project Number: South Four Lakes #13 (AP-76) Project Manager: Matt Pride	Fax: (918) 524-9292
---	--	---------------------

MW-1
3F14005-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	789	12.5	mg/L	25	P3F1901	06/17/13	06/19/13	EPA 300.0	
Total Dissolved Solids	1690	10.0	mg/L	1	P3F2107	06/18/13	06/21/13	EPA 160.1	

Permian Basin Environmental Lab, L.P.

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Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

MW-2
3F14005-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	445	12.5	mg/L	25	P3F1901	06/17/13	06/19/13	EPA 300.0	
Total Dissolved Solids	1290	10.0	mg/L	1	P3F2107	06/18/13	06/21/13	EPA 160.1	

Permian Basin Environmental Lab, L.P.

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Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F1901 - *** DEFAULT PREP ***										
Blank (P3F1901-BLK1) Prepared: 06/17/13 Analyzed: 06/19/13										
Chloride	ND	0.500	mg/L							
LCS (P3F1901-BS1) Prepared: 06/17/13 Analyzed: 06/19/13										
Chloride	9.84		mg/L	10.0		98.4	80-120			
LCS Dup (P3F1901-BSD1) Prepared: 06/17/13 Analyzed: 06/19/13										
Chloride	9.75		mg/L	10.0		97.5	80-120	0.970	20	
Duplicate (P3F1901-DUP1) Source: 3F14001-01 Prepared: 06/17/13 Analyzed: 06/19/13										
Chloride	250	2.50	mg/L		255			2.10	20	
Matrix Spike (P3F1901-MS1) Source: 3F14001-01 Prepared: 06/17/13 Analyzed: 06/19/13										
Chloride	300	2.50	mg/L	42.5	255	106	80-120			
Matrix Spike (P3F1901-MS2) Source: 3F14001-11 Prepared: 06/17/13 Analyzed: 06/19/13										
Chloride	539	12.5	mg/L	250	323	86.3	80-120			
Batch P3F2107 - *** DEFAULT PREP ***										
Blank (P3F2107-BLK1) Prepared: 06/18/13 Analyzed: 06/21/13										
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (P3F2107-DUP1) Source: 3F14001-01 Prepared: 06/18/13 Analyzed: 06/21/13										
Total Dissolved Solids	770	10.0	mg/L		815			5.68	20	

Permian Basin Environmental Lab, L.P.

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Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

6/24/2013

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Matt Pride
Pride Energy Company
P.O. BOX 701950
Tulsa, OK 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Location: T12S-R34E-Sec1 Unit Letter L ~ Lea County, NM
Lab Order Number: 3I24004



NELAP/TCEQ # T104704156-13-3

Report Date: 10/02/13

Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	3I24004-01	Water	09/23/13 13:00	09-24-2013 13:25
MW-2	3I24004-02	Water	09/23/13 12:00	09-24-2013 13:25

Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

MW-1
3I24004-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	696	12.5	mg/L	25	P3I2603	09/26/13	09/26/13	EPA 300.0	
Total Dissolved Solids	1520	20.0	mg/L	1	P3J0104	09/25/13	10/01/13	EPA 160.1	

Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

MW-2

3I24004-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	366	12.5	mg/L	25	P3I2603	09/26/13	09/26/13	EPA 300.0	
Total Dissolved Solids	1280	20.0	mg/L	1	P3J0104	09/25/13	10/01/13	EPA 160.1	

Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I2603 - *** DEFAULT PREP ***										
Blank (P3I2603-BLK1) Prepared & Analyzed: 09/26/13										
Chloride	ND	0.500	mg/L							
LCS (P3I2603-BS1) Prepared & Analyzed: 09/26/13										
Chloride	10.5		mg/L	10.0		105	80-120			
LCS Dup (P3I2603-BSD1) Prepared & Analyzed: 09/26/13										
Chloride	10.6		mg/L	10.0		106	80-120	0.837	20	
Duplicate (P3I2603-DUP1) Source: 3I24004-01 Prepared & Analyzed: 09/26/13										
Chloride	697	12.5	mg/L		696			0.147	20	
Batch P3J0104 - *** DEFAULT PREP ***										
Blank (P3J0104-BLK1) Prepared: 09/25/13 Analyzed: 10/01/13										
Total Dissolved Solids	10.0	10.0	mg/L							

Pride Energy Company
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Tulsa OK, 74170-1950

Project: Pride Energy Company
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Project Manager: Matt Pride

Fax: (918) 524-9292

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

10/2/2013

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, LP
 10014 S. County Road 1213
 Midland, Texas 79706
 Phone: 432-661-4184

COC No.: ~~AP76-091813~~
 AP76-0913 201

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name: Trident Environmental	BILL TO Company: Pride Energy Company / Attention: Matt Pride	PO#
Project Manager: Gil Van Deventer / Trident Environmental	Address: (Street, City, Zip) PO Box 710950, Tulsa, OK 74170-1950	
Address: (Street, City, Zip) PO Box 12177, Odessa TX 79768	Phone#: (918) 524-9200	Fax#: (918) 524-9292
Phone #: (432) 638-8740	Fax #: (413) 403-9968	
Project #: South Four Lakes #13 (AP-76)	Project Name: Pride Energy Company	
Project Location: T12S-R34E-Sec1 Unit Letter L ~ Lea County, NM	Sampler Signature:	

LAB #		FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX				PRESERVATIVE METHOD				SAMPLING		Turn Around Time ~ 24 Hours																					
(LAB USE ONLY)					WATER	SOIL	AIR	SLUDGE	HCL (BTEX only)	HNO ₃	NaHSO ₄	H ₂ SO ₄	ICE	NONE		DATE	TIME																			
01		MW-1	G	1	X									X	9/23/13	1300	MTBE 8021B/602	BTEX 8021 B	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	Total Dissolved Solids (160.1 or SM2540C)	Chloride / CT (SM4500 B or 300.1)			
02		MW-2	G	1	X									X	9/23/13	1200																				

Relinquished by: <i>[Signature]</i> Date: 9/24/13 Time: 1:05	Received by: <i>[Signature]</i> Date: 9/24/13 Time: 1325
Relinquished by: _____ Date: _____ Time: _____	Received By: (Laboratory Staff) _____ Date: _____ Time: _____
Delivered By: (Circle One) <input type="radio"/> UPS <input type="radio"/> Bus <input type="radio"/> Other: _____	Sample Condition <i>HIS</i> Cool Intact Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>
Checked By: <i>[Signature]</i> (Initials)	REMARKS: Email Results to: gil@trident-environmental.com mattp@pride-energy.com

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Matt Pride
Pride Energy Company
P.O. BOX 701950
Tulsa, OK 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Location: T12S-R34E-Sec1 Unit Letter L ~ Lea County, NM

Lab Order Number: 3L31002



NELAP/TCEQ # T104704156-13-3

Report Date: 01/07/14

Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	3L31002-01	Water	12/30/13 12:00	12-31-2013 13:30
MW-2	3L31002-02	Water	12/30/13 11:00	12-31-2013 13:30

Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

MW-1
3L31002-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	753	12.5	mg/L	25	P4A0604	01/06/14	01/06/14	EPA 300.0	
Total Dissolved Solids	1290	20.0	mg/L	1	P4A0701	01/03/14	01/07/14	EPA 160.1	

Permian Basin Environmental Lab, L.P.

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Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

MW-2
3L31002-02 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	448	12.5	mg/L	25	P4A0604	01/06/14	01/06/14	EPA 300.0	
Total Dissolved Solids	1070	20.0	mg/L	1	P4A0701	01/03/14	01/07/14	EPA 160.1	

Permian Basin Environmental Lab, L.P.

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Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #13 (AP-76)
Project Manager: Matt Pride

Fax: (918) 524-9292

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4A0604 - * DEFAULT PREP *****

Blank (P4A0604-BLK1) Prepared & Analyzed: 01/06/14

Chloride	ND	0.500	mg/L							
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LCS (P4A0604-BS1) Prepared & Analyzed: 01/06/14

Chloride	10.4		mg/L	10.0		104	80-120			
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LCS Dup (P4A0604-BSD1) Prepared & Analyzed: 01/06/14

Chloride	9.86		mg/L	10.0		98.6	80-120	5.47	20	
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Duplicate (P4A0604-DUP1) Source: 3L31002-01 Prepared & Analyzed: 01/06/14

Chloride	753	12.5	mg/L		753			0.0797	20	
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Matrix Spike (P4A0604-MS1) Source: 3L31002-01 Prepared & Analyzed: 01/06/14

Chloride	899	12.5	mg/L	150	753	97.0	80-120			
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Batch P4A0701 - * DEFAULT PREP *****

Blank (P4A0701-BLK1) Prepared: 01/03/14 Analyzed: 01/07/14

Total Dissolved Solids	ND	20.0	mg/L							
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Duplicate (P4A0701-DUP1) Source: 3L31002-01 Prepared: 01/03/14 Analyzed: 01/07/14

Total Dissolved Solids	1340	20.0	mg/L		1290			3.80	20	
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Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

1/7/2014

Brent Barron, Laboratory Director/Technical Director

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