

AP-78

**Pride Energy
South Four Lakes #15**

**Annual Report
2013**

Delivery Confirmation No.
9405 5118 9956 0661 3474 07



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 #15 Site (AP-78)
T12S-R34E-Section 2, Unit Letter G, Lea County, New Mexico**

Dear Mr. von Gonten:

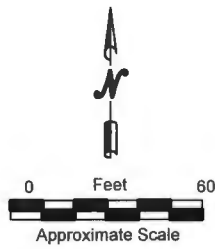
As agent for Pride Energy Company (Pride), Trident Environmental submits this *2013 Annual Groundwater Monitoring Report* for the above-referenced site.

Groundwater Sampling Procedures

During each quarterly sampling event the on-site monitoring well (MW-1) was 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 the 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 the monitoring well were transferred into 500 milliliter (ml) plastic containers for laboratory analysis of chloride and sulfate using EPA Method E300 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.

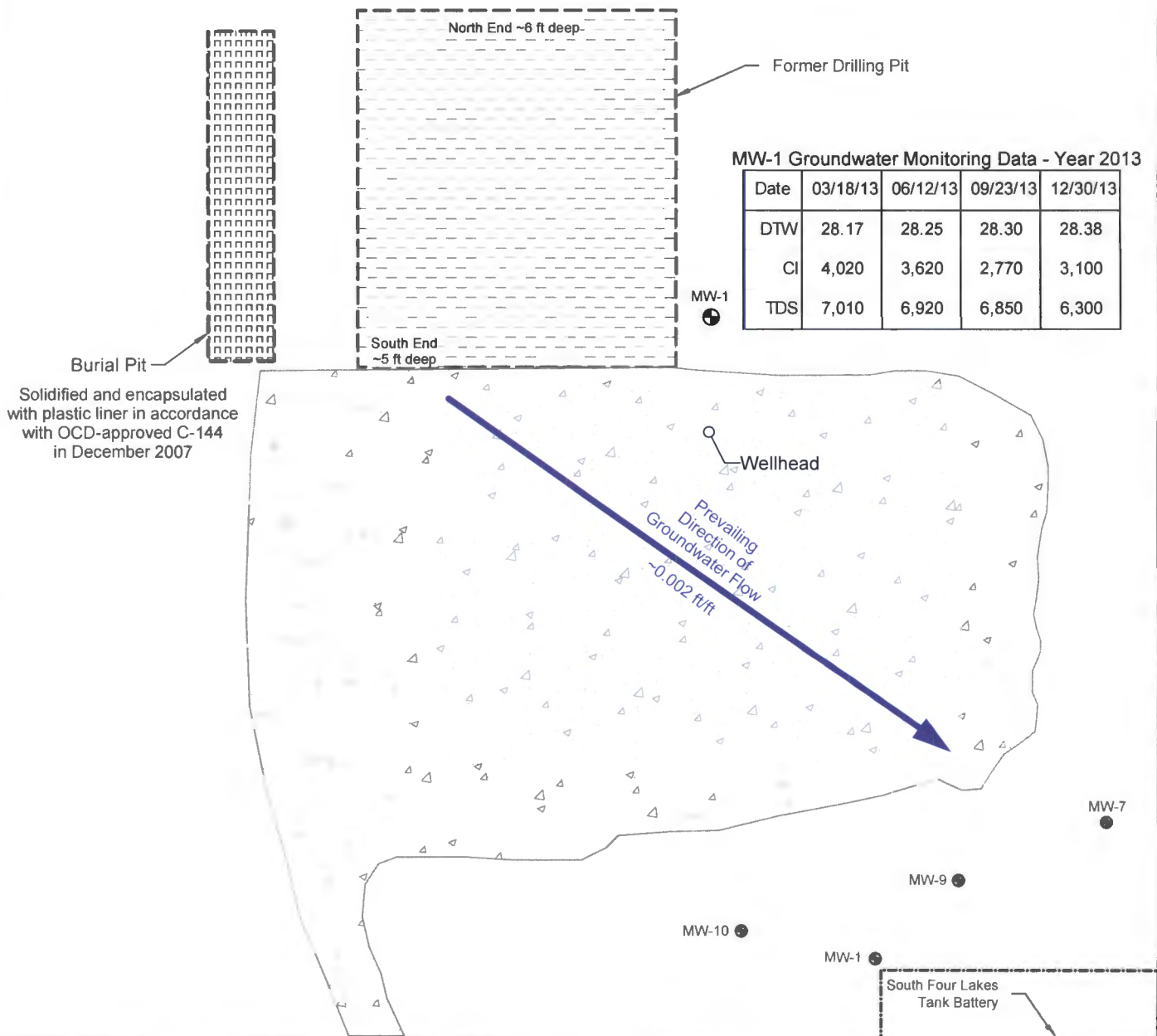
Groundwater Monitoring Results

Groundwater monitoring activities have been performed at the site on a quarterly basis since January 2008 as summarized in Table 1. A site plan showing the most recent groundwater elevation and the chloride/TDS concentrations in monitoring well MW-1 is shown in Figure 1. Figure 2 is a graph depicting chloride and TDS concentrations and groundwater elevation versus time at monitoring well MW-1.



Legend

| | |
|------|--------------------------------|
| MW-1 | Monitoring Well Location |
| DTW | Depth to Groundwater (ft btoc) |
| Cl | Chloride/TDS concentration |
| TDS | in groundwater (mg/L) |



Pride Energy Company
South Four Lakes #15 (AP-78)
T12S - R34E - Section 2 - Unit G
Lea County, New Mexico

FIGURE 1

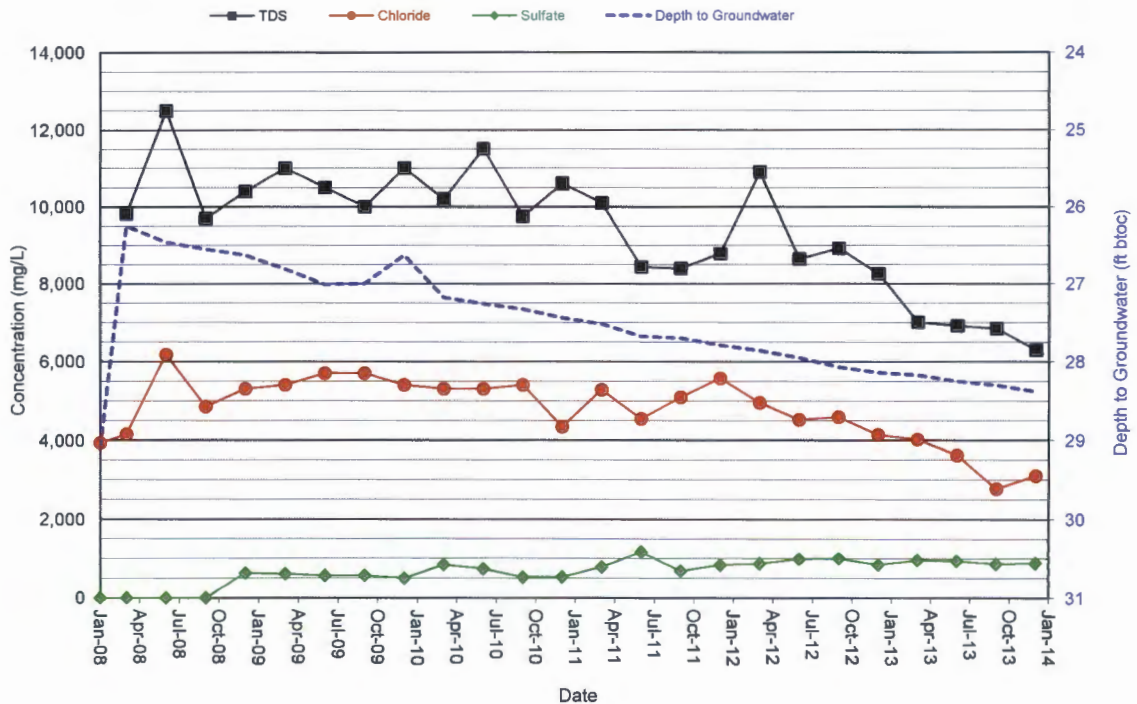
2013
Groundwater Monitoring Results

Table 1
Summary of Groundwater Monitoring Results (MW-1)
South Four Lakes #15 Site (AP-78)

| Sample Date | Depth to Groundwater (feet BTOC) | Groundwater Elevation (feet AMSL) | Chloride (mg/L) | Sulfate (mg/L) | TDS (mg/L) | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (mg/L) |
|----------------|----------------------------------|-----------------------------------|-----------------|----------------|---------------|----------------|----------------|---------------------|---------------|
| 1/23/2008 | 29.10 | 4122.05 | 3,930 | --- | --- | --- | --- | --- | --- |
| 3/13/2008 | 26.25 | 4124.90 | 4,150 | --- | 9,820 | <0.001 | <0.001 | <0.001 | <0.003 |
| 6/20/2008 | 26.46 | 4124.69 | 6,180 | --- | 12,500 | --- | --- | --- | --- |
| 9/9/2008 | 26.55 | 4124.60 | 4,850 | --- | 9,700 | <0.001 | <0.001 | <0.001 | <0.003 |
| 12/8/2008 | 26.63 | 4124.52 | 5,300 | 632 | 10,400 | <0.001 | <0.001 | <0.001 | <0.003 |
| 3/18/2009 | 26.81 | 4124.34 | 5,400 | 611 | 11,000 | <0.001 | <0.001 | <0.001 | <0.003 |
| 6/17/2009 | 27.01 | 4124.14 | 5,700 | 568 | 10,500 | <0.001 | <0.001 | <0.001 | <0.003 |
| 9/21/2009 | 27.00 | 4124.15 | 5,700 | 568 | 10,000 | <0.001 | <0.001 | <0.001 | <0.003 |
| 12/9/2009 | 26.63 | 4124.52 | 5,400 | 499 | 11,000 | <0.001 | <0.001 | <0.001 | <0.003 |
| 3/24/2010 | 27.18 | 4123.97 | 5,300 | 844 | 10,200 | --- | --- | --- | --- |
| 6/15/2010 | 27.26 | 4123.89 | 5,300 | 742 | 11,500 | --- | --- | --- | --- |
| 9/13/2010 | 27.33 | 4123.82 | 5,400 | 528 | 9,750 | --- | --- | --- | --- |
| 12/13/2010 | 27.44 | 4123.71 | 4,340 | 536 | 10,600 | --- | --- | --- | --- |
| 3/17/2011 | 27.52 | 4123.63 | 5,280 | 790 | 10,100 | --- | --- | --- | --- |
| 6/29/2011 | 27.68 | 4123.47 | 4,540 | 1,170 | 8,430 | --- | --- | --- | --- |
| 9/27/2011 | 27.70 | 4123.45 | 5,090 | 688 | 8,400 | --- | --- | --- | --- |
| 12/13/2011 | 27.79 | 4123.36 | 5,570 | 844 | 8,780 | --- | --- | --- | --- |
| 3/29/2012 | 27.86 | 4123.29 | 4,950 | 878 | 10,900 | --- | --- | --- | --- |
| 6/19/2012 | 27.95 | 4123.20 | 4,520 | 996 | 8,640 | --- | --- | --- | --- |
| 9/26/2012 | 28.07 | 4123.08 | 4,590 | 1,010 | 8,920 | --- | --- | --- | --- |
| 12/27/2012 | 28.14 | 4123.01 | 4,140 | 851 | 8,260 | --- | --- | --- | --- |
| 3/18/2013 | 28.17 | 4122.98 | 4,020 | 968 | 7,010 | --- | --- | --- | --- |
| 6/12/2013 | 28.25 | 4122.90 | 3,620 | 947 | 6,920 | --- | --- | --- | --- |
| 9/23/2013 | 28.30 | 4122.85 | 2,770 | 870 | 6,850 | --- | --- | --- | --- |
| 12/30/2013 | 28.38 | 4122.77 | 3,100 | 888 | 6,300 | --- | --- | --- | --- |
| WQCC Standards | | | 250 | 600 | 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 state plane coordinates surveyed by Basin Surveys, Hobbs, NM.
 --- Indicates parameter was not analyzed.

FIGURE 2
Chloride/TDS Concentrations and Groundwater Elevation Versus Time Graph (MW-1)



Groundwater Depth, Elevations, Hydraulic Gradient and Flow Direction

Depth to groundwater at the site is approximately 26 feet (ft) below ground surface. The water table elevation has been steadily declining about 0.4 ft/year as displayed in Figure 2, which graphs the change in groundwater elevation since 2008 at monitoring well MW-1. Based on data from nearby sites, the prevailing groundwater gradient direction trends towards the southeast with a relatively flat hydraulic gradient of approximately 0.002 ft/ft (Figure 1). 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 remain 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 was discontinued.

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 please 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: *Well sampling data form and laboratory analytical reports*

WELL SAMPLING DATA FORM

AND

LABORATORY ANALYTICAL REPORTS

**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 #15 (AP-78)
Location: T12S-R34E-Sec 2 Unit Letter G ~ Lea County, NM
Lab Order Number: 3C20002



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 #15 (AP-78)
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|------------------|
| MW-1 | 3C20002-01 | Water | 03/18/13 13:00 | 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 (3C20002-01) Water | | | | | | | | | |
| Chloride | 4020 | 100 | mg/L | 200 | EC32601 | 03/26/13 | 03/26/13 | EPA 300.0 | |
| Total Dissolved Solids | 7010 | 10.0 | " | 1 | EC32703 | 03/25/13 | 03/25/13 | EPA 160.1 | |
| Sulfate | 968 | 200 | " | 200 | EC32601 | 03/26/13 | 03/26/13 | EPA 300.0 | |

WELL SAMPLING DATA FORM (MW-1)



CLIENT: Pride Energy Company

SITE NAME: South Four Lakes #15 (AP-78)

SITE LOCATION: T12S-R34E-Sec 2 Unit Letter G ~ 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 | 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 | 03/18/13 | 13:00 | 28.17 | 49.80 | 21.63 | 0.16 | 3.5 | 20 | 5.8 | 67.9 | 12.18 | 7.21 | Cloudy but cleared quickly during purge |
| Second | 06/12/13 | 11:30 | 28.25 | 49.80 | 21.55 | 0.16 | 3.4 | 20 | 5.8 | 73.6 | 10.99 | 7.53 | Cloudy but cleared quickly during purge |
| Third | 09/26/13 | 11:00 | 28.30 | 49.80 | 21.50 | 0.16 | 3.4 | 15 | 4.4 | 67.8 | 9.88 | 7.67 | Cloudy but cleared quickly during purge |
| Fourth | 12/30/13 | 13:00 | 28.38 | 49.80 | 21.42 | 0.16 | 3.4 | 20 | 5.8 | 62.4 | 10.02 | 7.04 | 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 Permian Basin Environmental Laboratory (Midland TX) for chloride, sulfate, and TDS analysis.

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

Project: Pride Energy Company
Project Number: South Four Lakes #15 (AP-78)
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

| | | | | | | | | | | |
|----------|----|-------|------|--|--|--|--|--|--|--|
| Sulfate | ND | 1.00 | mg/L | | | | | | | |
| Chloride | ND | 0.500 | " | | | | | | | |

LCS (EC32601-BS1)

Prepared & Analyzed: 03/26/13

| | | | | | | | | | | |
|----------|------|--|------|------|--|-----|--------|--|--|--|
| Sulfate | 11.7 | | mg/L | 10.0 | | 117 | 80-120 | | | |
| Chloride | 10.9 | | " | 10.0 | | 109 | 80-120 | | | |

LCS Dup (EC32601-BS1)

Prepared & Analyzed: 03/26/13

| | | | | | | | | | | |
|----------|------|--|------|------|--|-----|--------|-------|----|--|
| Sulfate | 11.8 | | mg/L | 10.0 | | 118 | 80-120 | 0.434 | 20 | |
| Chloride | 11.0 | | " | 10.0 | | 110 | 80-120 | 0.621 | 20 | |

Duplicate (EC32601-DUP1)

Source: 3C20001-01

Prepared & Analyzed: 03/26/13

| | | | | | | | | | | |
|----------|-----|------|------|--|-----|--|--|-------|----|--|
| Sulfate | 230 | 25.0 | mg/L | | 232 | | | 0.802 | 20 | |
| Chloride | 801 | 12.5 | " | | 800 | | | 0.137 | 20 | |

Matrix Spike (EC32601-MS1)

Source: 3C20001-01

Prepared & Analyzed: 03/26/13

| | | | | | | | | | | |
|----------|------|------|------|-----|-----|-----|--------|--|--|--|
| Sulfate | 547 | 25.0 | mg/L | 300 | 232 | 105 | 80-120 | | | |
| Chloride | 1100 | 12.5 | " | 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 #15 (AP-78)
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

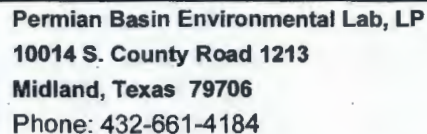
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Permian Basin Environmental Lab

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.

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

[illegible]

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

PBELAB

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 #15 (AP78)
Location: T12S-R34E-Sec 2 Unit Letter G ~ Lea County, NM
Lab Order Number: 3F14004



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 #15 (AP78)
Project Manager: Matt Pride

Fax: (918) 524-9292

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|------------------|
| MW-1 | 3F14004-01 | Water | 06/12/13 11:30 | 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 #15 (AP78)
Project Manager: Matt Pride

Fax: (918) 524-9292

MW-1
3F14004-01 (Water)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------------------|------|------|------|-----|---------|----------|----------|-----------|--|
| Chloride | 3620 | 100 | mg/L | 200 | P3F1901 | 06/17/13 | 06/19/13 | EPA 300.0 | |
| Total Dissolved Solids | 6920 | 10.0 | mg/L | 1 | P3F2107 | 06/18/13 | 06/21/13 | EPA 160.1 | |
| Sulfate | 947 | 200 | mg/L | 200 | P3F1901 | 06/17/13 | 06/19/13 | EPA 300.0 | |

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

Project: Pride Energy Company
Project Number: South Four Lakes #15 (AP78)
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 Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

Batch P3F1901 - * DEFAULT PREP *****

Blank (P3F1901-BLK1)

Prepared: 06/17/13 Analyzed: 06/19/13

| | | | | | | | | | |
|----------|----|-------|------|--|--|--|--|--|--|
| Sulfate | ND | 1.00 | mg/L | | | | | | |
| Chloride | ND | 0.500 | " | | | | | | |

LCS (P3F1901-BS1)

Prepared: 06/17/13 Analyzed: 06/19/13

| | | | | | | | | | |
|----------|------|--|------|------|--|------|--------|--|--|
| Sulfate | 10.3 | | mg/L | 10.0 | | 103 | 80-120 | | |
| Chloride | 9.84 | | " | 10.0 | | 98.4 | 80-120 | | |

LCS Dup (P3F1901-BSD1)

Prepared: 06/17/13 Analyzed: 06/19/13

| | | | | | | | | | |
|----------|------|--|------|------|--|------|--------|--------|----|
| Sulfate | 10.3 | | mg/L | 10.0 | | 103 | 80-120 | 0.0968 | 20 |
| Chloride | 9.75 | | " | 10.0 | | 97.5 | 80-120 | 0.970 | 20 |

Duplicate (P3F1901-DUP1)

Source: 3F14001-01

Prepared: 06/17/13 Analyzed: 06/19/13

| | | | | | | | | | |
|----------|-----|------|------|--|-----|--|--|-------|----|
| Sulfate | 105 | 5.00 | mg/L | | 105 | | | 0.366 | 20 |
| Chloride | 250 | 2.50 | " | | 255 | | | 2.10 | 20 |

Matrix Spike (P3F1901-MS1)

Source: 3F14001-01

Prepared: 06/17/13 Analyzed: 06/19/13

| | | | | | | | | | |
|----------|-----|------|------|------|-----|-----|--------|--|--|
| Sulfate | 154 | 5.00 | mg/L | 42.5 | 105 | 113 | 80-120 | | |
| Chloride | 300 | 2.50 | " | 42.5 | 255 | 106 | 80-120 | | |

Matrix Spike (P3F1901-MS2)

Source: 3F14001-11

Prepared: 06/17/13 Analyzed: 06/19/13

| | | | | | | | | | |
|----------|-----|------|------|-----|------|------|--------|--|--|
| Sulfate | 264 | 25.0 | mg/L | 250 | 60.2 | 81.3 | 80-120 | | |
| Chloride | 539 | 12.5 | " | 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 | | | | | | |
|------------------------|----|------|------|--|--|--|--|--|--|

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

Project: Pride Energy Company
Project Number: South Four Lakes #15 (AP78)
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 P3F2107 - * DEFAULT PREP *****

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.

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.

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 #15 (AP78)
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

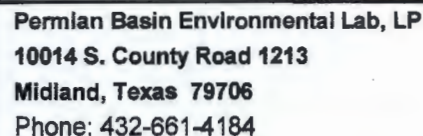
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Permian Basin Environmental Lab, L.P.

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Page 7 of 7

**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 #15 (AP78)
Location: T12S-R34E-Sec 2 Unit Letter G ~ Lea County, NM
Lab Order Number: 3I24005



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 #15 (AP78)
Project Manager: Matt Pride

Fax: (918) 524-9292

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|------------------|
| MW-1 | 3I24005-01 | Water | 09/23/13 11:00 | 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 #15 (AP78)
Project Manager: Matt Pride

Fax: (918) 524-9292

MW-1

3124005-01 (Water)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------------------|------|------|------|-----|---------|----------|----------|-----------|--|
| Chloride | 2770 | 100 | mg/L | 200 | P312603 | 09/26/13 | 09/26/13 | EPA 300.0 | |
| Total Dissolved Solids | 6850 | 20.0 | mg/L | 1 | P3J0104 | 09/25/13 | 10/01/13 | EPA 160.1 | |
| Sulfate | 870 | 200 | mg/L | 200 | P312603 | 09/26/13 | 09/26/13 | EPA 300.0 | |

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 #15 (AP78)
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 Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|---------------------------------------|------------------|----------------|--------|--------------|-------|
| Batch P3I2603 - *** DEFAULT PREP *** | | | | | | | | | |
| Blank (P3I2603-BLK1) | | | | Prepared & Analyzed: 09/26/13 | | | | | |
| Sulfate | ND | 1.00 | mg/L | | | | | | |
| Chloride | ND | 0.500 | " | | | | | | |
| LCS (P3I2603-BS1) | | | | Prepared & Analyzed: 09/26/13 | | | | | |
| Sulfate | 11.3 | | mg/L | 10.0 | | 113 | 80-120 | | |
| Chloride | 10.5 | | " | 10.0 | | 105 | 80-120 | | |
| LCS Dup (P3I2603-BSD1) | | | | Prepared & Analyzed: 09/26/13 | | | | | |
| Sulfate | 11.8 | | mg/L | 10.0 | | 118 | 80-120 | 4.43 | 20 |
| Chloride | 10.6 | | " | 10.0 | | 106 | 80-120 | 0.837 | 20 |
| Duplicate (P3I2603-DUP1) | | Source: 3I24004-01 | | Prepared & Analyzed: 09/26/13 | | | | | |
| Sulfate | 216 | 25.0 | mg/L | | 217 | | | 0.415 | 20 |
| Chloride | 697 | 12.5 | " | | 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
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: South Four Lakes #15 (AP78)
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: Brent Barron

Date: 10/2/2013

Brent Barron, Laboratory Director/Technical Director

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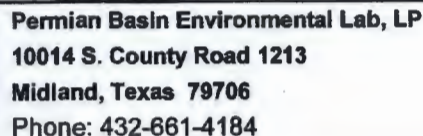
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Permian Basin Environmental Lab, L.P.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

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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 #15 (AP78)
Location: T12S-R34E-Sec 2 Unit Letter G ~ Lea County, NM
Lab Order Number: 3L31003



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 #15 (AP78)
Project Manager: Matt Pride

Fax: (918) 524-9292

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|------------------|
| MW-1 | 3L31003-01 | Water | 12/30/13 13:00 | 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 #15 (AP78)
Project Manager: Matt Pride

Fax: (918) 524-9292

MW-1
3L31003-01 (Water)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------------------|------|------|------|-----|---------|----------|----------|-----------|--|
| Chloride | 3100 | 100 | mg/L | 200 | P4A0604 | 01/06/14 | 01/06/14 | EPA 300.0 | |
| Total Dissolved Solids | 6300 | 20.0 | mg/L | 1 | P4A0701 | 01/03/14 | 01/07/14 | EPA 160.1 | |
| Sulfate | 888 | 200 | mg/L | 200 | P4A0604 | 01/06/14 | 01/06/14 | EPA 300.0 | |

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

Project: Pride Energy Company
Project Number: South Four Lakes #15 (AP78)
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 P4A0604 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P4A0604-BLK1) | | | | Prepared & Analyzed: 01/06/14 | | | | | | |
| Sulfate | ND | 1.00 | mg/L | | | | | | | |
| Chloride | ND | 0.500 | " | | | | | | | |
| LCS (P4A0604-BS1) | | | | Prepared & Analyzed: 01/06/14 | | | | | | |
| Sulfate | 9.89 | | mg/L | 10.0 | | 98.9 | 80-120 | | | |
| Chloride | 10.4 | | " | 10.0 | | 104 | 80-120 | | | |
| LCS Dup (P4A0604-BSD1) | | | | Prepared & Analyzed: 01/06/14 | | | | | | |
| Sulfate | 9.89 | | mg/L | 10.0 | | 98.9 | 80-120 | 0.0101 | 20 | |
| Chloride | 9.86 | | " | 10.0 | | 98.6 | 80-120 | 5.47 | 20 | |
| Duplicate (P4A0604-DUP1) | | | | Source: 3L31002-01 | | Prepared & Analyzed: 01/06/14 | | | | |
| Sulfate | 207 | 25.0 | mg/L | | 209 | | | 1.14 | 20 | |
| Chloride | 753 | 12.5 | " | | 753 | | | 0.0797 | 20 | |
| Matrix Spike (P4A0604-MS1) | | | | Source: 3L31002-01 | | Prepared & Analyzed: 01/06/14 | | | | |
| Sulfate | 378 | 25.0 | mg/L | 150 | 209 | 112 | 80-120 | | | |
| Chloride | 899 | 12.5 | " | 150 | 753 | 97.0 | 80-120 | | | |
| Batch P4A0701 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P4A0701-BLK1) | | | | Prepared: 01/03/14 Analyzed: 01/07/14 | | | | | | |
| Total Dissolved Solids | ND | 20.0 | mg/L | | | | | | | |
| 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 | |

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 #15 (AP78)
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:



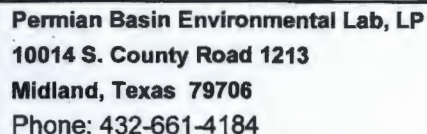
Date:

1/7/2014

Brent Barron, Laboratory Director/Technical Director

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LAB Order ID # SL 51003

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