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February 27, 2015

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: 2014 Annual Groundwater Monitoring Report**
**State 36 #2 Site (NMOCD Case # 1R-501)**
**T19S-R37E-Section 36, Unit Letter O, Lea County, New Mexico**

Dear Mr. Griswold:

As agent for Pride Energy Company (Pride), Trident Environmental submits this *2014 Annual Groundwater Monitoring Report* for the above-referenced site.

*Groundwater Sampling Procedures*

During each quarterly sampling event the four monitoring wells (MW-1, MW-2, MW-3, and MW-4) 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 the four on site monitoring wells (MW-1, MW-2, MW-3, and MW-4) is shown in Figure 1. Figure 2 is a graph depicting groundwater elevation versus time for each monitoring well. Figures 3 and 4 depict chloride and TDS concentrations, respectively. A well sampling data form, laboratory analytical reports, and chains of custody documentation for each 2014 sampling event are attached.

*Conclusions regarding groundwater conditions are summarized as follows*:

- The local water table is at a depth of approximately 42 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 within the shallow Quaternary colluvium deposits is about 50 ft bgs, where red clay of the Triassic Dockum Group was encountered during well installations, therefore the saturated thickness is estimated at only 6 feet. A non-level erosional unconformity represented by the top of the Triassic red clay and a localized groundwater divide (Nicholson and Clebsch, Ground-Water Report 6, *Geology and Ground-Water Conditions in Southeast New Mexico*, 1961) helps to explain the thin saturated thickness and anomalous local gradient observed at the site (Figure 5).

- 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 wells 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 2014 have been observed in monitoring well MW-3 with concentrations of 1,370 mg/L and 3,930 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.

Pride Energy Company plans to continue 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).

Sincerely,

Gilbert Van Deventer, REM, PG
Trident Environmental

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

Attachments: *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**
**State 36 #2 (1R-501)**

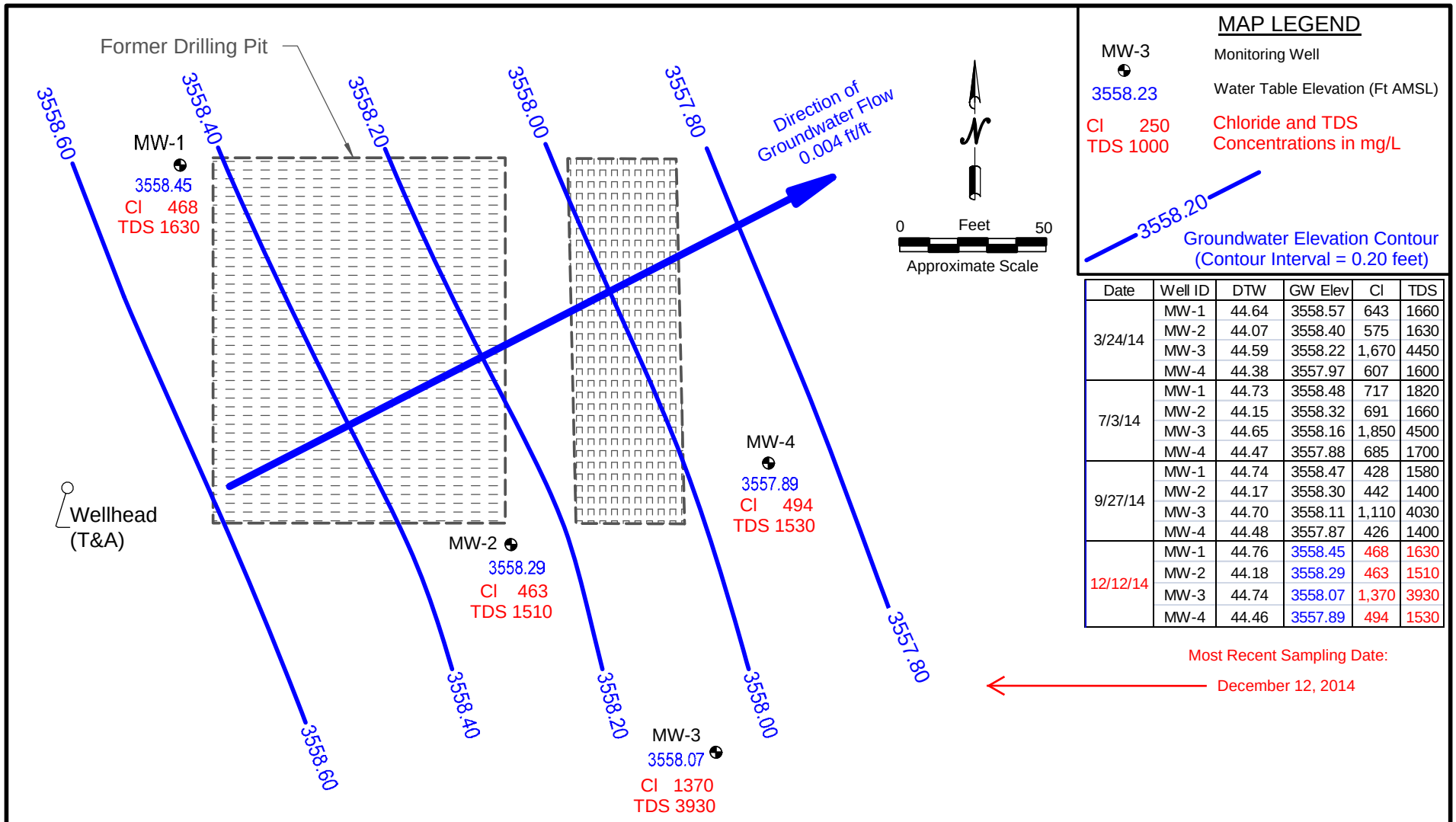
| Monitoring Well | Sample Date | Depth to Groundwater (feet BTOC) | Top of Casing Elevation (feet AMSL) | Groundwater Elevation (feet AMSL) | Well Depth (feet BTOC) | Chloride (mg/L) | TDS (mg/L) | Benzene (mg/L) | Toluene (mg/L) | Ethyl-benzene (mg/L) | Xylene (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 02/25/08 | 43.80 | 3603.21 | 3559.41 | 52.40 | **489** | --- | --- | --- | --- | --- |
| | 03/27/08 | 43.88 | 3603.21 | 3559.33 | 52.40 | **557** | **1,770** | < 0.001 | < 0.002 | < 0.001 | < 0.003 |
| | 06/17/08 | 43.89 | 3603.21 | 3559.32 | 52.40 | **594** | **1,370** | --- | --- | --- | --- |
| | 09/10/08 | 43.97 | 3603.21 | 3559.24 | 52.40 | **440** | **1,260** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 12/17/08 | 43.96 | 3603.21 | 3559.25 | 52.40 | **440** | **1,290** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 03/19/09 | 44.02 | 3603.21 | 3559.19 | 52.40 | **430** | **1,240** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 06/18/09 | 44.02 | 3603.21 | 3559.19 | 52.40 | **428** | **1,330** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 09/17/09 | 44.08 | 3603.21 | 3559.13 | 52.40 | **456** | **1,530** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 12/10/09 | 44.13 | 3603.21 | 3559.08 | 52.40 | **450** | **1,360** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 03/31/10 | 44.14 | 3603.21 | 3559.07 | 52.40 | **468** | **1,330** | --- | --- | --- | --- |
| | 06/16/10 | 44.20 | 3603.21 | 3559.01 | 52.40 | **447** | **1,420** | --- | --- | --- | --- |
| | 09/22/10 | 44.09 | 3603.21 | 3559.12 | 52.40 | **1,470** | **3,940** | --- | --- | --- | --- |
| | 12/13/10 | 44.12 | 3603.21 | 3559.09 | 52.40 | **491** | **1,790** | --- | --- | --- | --- |
| | 03/17/11 | 44.14 | 3603.21 | 3559.07 | 52.40 | **512** | **1,840** | --- | --- | --- | --- |
| | 06/30/11 | 44.24 | 3603.21 | 3558.97 | 52.40 | **447** | **1,410** | --- | --- | --- | --- |
| | 09/29/11 | 44.23 | 3603.21 | 3558.98 | 52.40 | **453** | 770 | --- | --- | --- | --- |
| | 12/20/11 | 44.31 | 3603.21 | 3558.90 | 52.40 | **527** | **3,810** | --- | --- | --- | --- |
| | 03/29/12 | 44.34 | 3603.21 | 3558.87 | 52.40 | **504** | **1,380** | --- | --- | --- | --- |
| | 06/20/12 | 44.37 | 3603.21 | 3558.84 | 52.40 | **551** | **1,420** | --- | --- | --- | --- |
| | 09/26/12 | 44.44 | 3603.21 | 3558.77 | 52.40 | **532** | **1,900** | --- | --- | --- | --- |
| | 12/27/12 | 44.46 | 3603.21 | 3558.75 | 52.40 | **463** | **1,740** | --- | --- | --- | --- |
| | 03/18/13 | 44.59 | 3603.21 | 3558.62 | 52.40 | **614** | **1,760** | --- | --- | --- | --- |
| | 06/11/13 | 44.63 | 3603.21 | 3558.58 | 52.40 | **574** | **1,820** | --- | --- | --- | --- |
| | 09/23/13 | 44.58 | 3603.21 | 3558.63 | 52.40 | **538** | **1,860** | --- | --- | --- | --- |
| | 12/30/13 | 44.63 | 3603.21 | 3558.58 | 52.40 | **636** | **1,430** | --- | --- | --- | --- |
| | 03/24/14 | 44.64 | 3603.21 | 3558.57 | 52.40 | **643** | **1,660** | --- | --- | --- | --- |
| | 07/03/14 | 44.73 | 3603.21 | 3558.48 | 52.40 | **717** | **1,820** | --- | --- | --- | --- |
| | 09/27/14 | 44.74 | 3603.21 | 3558.47 | 52.40 | **428** | **1,580** | --- | --- | --- | --- |
| | 12/12/14 | 44.76 | 3603.21 | 3558.45 | 52.40 | **468** | **1,630** | --- | --- | --- | --- |
| MW-2 | 05/08/08 | 43.25 | 3602.47 | 3559.22 | 57.61 | **1,450** | **2,730** | < 0.001 | < 0.002 | < 0.001 | < 0.003 |
| | 06/17/08 | 43.31 | 3602.47 | 3559.16 | 57.61 | **1,980** | **2,730** | --- | --- | --- | --- |
| | 09/10/08 | 43.37 | 3602.47 | 3559.10 | 57.61 | **1,580** | **3,440** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 12/17/08 | 43.38 | 3602.47 | 3559.09 | 57.61 | **1,300** | **2,900** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 03/19/09 | 43.41 | 3602.47 | 3559.06 | 57.61 | **1,080** | **2,380** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 06/18/09 | 43.42 | 3602.47 | 3559.05 | 57.61 | **920** | **2,300** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 09/17/09 | 43.47 | 3602.47 | 3559.00 | 57.61 | **810** | **1,980** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 12/10/09 | 43.53 | 3602.47 | 3558.94 | 57.61 | **860** | **1,870** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 03/31/10 | 43.55 | 3602.47 | 3558.92 | 57.61 | **691** | **1,520** | --- | --- | --- | --- |
| | 06/16/10 | 43.66 | 3602.47 | 3558.81 | 57.61 | **723** | **2,020** | --- | --- | --- | --- |
| | 09/22/10 | 43.54 | 3602.47 | 3558.93 | 57.61 | **923** | **3,080** | --- | --- | --- | --- |
| | 12/13/10 | 43.55 | 3602.47 | 3558.92 | 57.61 | **936** | **2,750** | --- | --- | --- | --- |
| | 03/17/11 | 43.55 | 3602.47 | 3558.92 | 57.61 | **765** | **2,560** | --- | --- | --- | --- |
| | 06/30/11 | 43.67 | 3602.47 | 3558.80 | 57.61 | **788** | **1,180** | --- | --- | --- | --- |
| | 09/29/11 | 43.65 | 3602.47 | 3558.82 | 57.61 | **616** | **1,380** | --- | --- | --- | --- |
| | 12/20/11 | 43.73 | 3602.47 | 3558.74 | 57.61 | **579** | **2,100** | --- | --- | --- | --- |
| | 03/29/12 | 43.76 | 3602.47 | 3558.71 | 57.61 | **572** | **1,660** | --- | --- | --- | --- |
| | 06/20/12 | 43.79 | 3602.47 | 3558.68 | 57.61 | **721** | **1,800** | --- | --- | --- | --- |
| | 09/26/12 | 43.86 | 3602.47 | 3558.61 | 57.61 | **556** | **1,810** | --- | --- | --- | --- |
| | 12/27/12 | 43.88 | 3602.47 | 3558.59 | 57.61 | **466** | **1,690** | --- | --- | --- | --- |
| | 03/18/13 | 43.91 | 3602.47 | 3558.56 | 57.61 | **604** | **1,630** | --- | --- | --- | --- |
| | 06/11/13 | 43.95 | 3602.47 | 3558.52 | 57.61 | **702** | **1,880** | --- | --- | --- | --- |
| | 09/23/13 | 44.01 | 3602.47 | 3558.46 | 57.61 | **586** | **1,790** | --- | --- | --- | --- |
| | 12/30/13 | 44.06 | 3602.47 | 3558.41 | 57.61 | **564** | **1,500** | --- | --- | --- | --- |
| | 03/24/14 | 44.07 | 3602.47 | 3558.40 | 57.61 | **575** | **1,630** | --- | --- | --- | --- |
| | 07/03/14 | 44.15 | 3602.47 | 3558.32 | 57.61 | **691** | **1,660** | --- | --- | --- | --- |
| | 09/27/14 | 44.17 | 3602.47 | 3558.30 | 57.61 | **442** | **1,400** | --- | --- | --- | --- |
| | 12/12/14 | 44.18 | 3602.47 | 3558.29 | 57.61 | **463** | **1,510** | --- | --- | --- | --- |

Continued on next page

**Table 1**
**Summary of Groundwater Monitoring Results**
**State 36 #2 (1R-501)**

| Monitoring Well | Sample Date | Depth to Groundwater (feet BTOC) | Top of Casing Elevation (feet AMSL) | Groundwater Elevation (feet AMSL) | Well Depth (feet BTOC) | Chloride (mg/L) | TDS (mg/L) | Benzene (mg/L) | Toluene (mg/L) | Ethyl-benzene (mg/L) | Xylene (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 06/17/08 | 43.83 | 3602.81 | 3558.98 | 53.83 | **733** | **1,810** | --- | --- | --- | --- |
| | 09/10/08 | 43.85 | 3602.81 | 3558.96 | 53.83 | **580** | **1,660** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 12/17/08 | 43.91 | 3602.81 | 3558.90 | 53.83 | **570** | **1,580** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 03/19/09 | 43.91 | 3602.81 | 3558.90 | 53.83 | **560** | **1,620** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 06/18/09 | 43.97 | 3602.81 | 3558.84 | 53.83 | **520** | **1,530** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 09/17/09 | 44.03 | 3602.81 | 3558.78 | 53.83 | **500** | **1,410** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 12/10/09 | 44.07 | 3602.81 | 3558.74 | 53.83 | **500** | **1,360** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 03/31/10 | 44.07 | 3602.81 | 3558.74 | 53.83 | **489** | **1,230** | --- | --- | --- | --- |
| | 06/16/10 | 44.14 | 3602.81 | 3558.67 | 53.83 | **489** | **1,440** | --- | --- | --- | --- |
| | 09/22/10 | 44.07 | 3602.81 | 3558.74 | 53.83 | **420** | **1,520** | --- | --- | --- | --- |
| | 12/13/10 | 44.10 | 3602.81 | 3558.71 | 53.83 | **290** | **1,350** | --- | --- | --- | --- |
| | 03/17/11 | 44.07 | 3602.81 | 3558.74 | 53.83 | **434** | **1,420** | --- | --- | --- | --- |
| | 06/30/11 | 44.19 | 3602.81 | 3558.62 | 53.83 | **426** | **1,310** | --- | --- | --- | --- |
| | 09/29/11 | 44.18 | 3602.81 | 3558.63 | 53.83 | **439** | 890 | --- | --- | --- | --- |
| | 12/20/11 | 44.28 | 3602.81 | 3558.53 | 53.83 | **494** | **1,220** | --- | --- | --- | --- |
| | 03/29/12 | 44.29 | 3602.81 | 3558.52 | 53.83 | **642** | **1,830** | --- | --- | --- | --- |
| | 06/20/12 | 44.31 | 3602.81 | 3558.50 | 53.83 | **1,040** | **2,500** | --- | --- | --- | --- |
| | 09/26/12 | 44.37 | 3602.81 | 3558.44 | 53.83 | **1,160** | **3,460** | --- | --- | --- | --- |
| | 12/27/12 | 44.40 | 3602.81 | 3558.41 | 53.83 | **1,030** | **3,500** | --- | --- | --- | --- |
| | 03/18/13 | 44.43 | 3602.81 | 3558.38 | 53.83 | **1,380** | **3,500** | --- | --- | --- | --- |
| | 06/11/13 | 44.47 | 3602.81 | 3558.34 | 53.83 | **1,770** | **4,510** | --- | --- | --- | --- |
| | 09/23/13 | 44.52 | 3602.81 | 3558.29 | 53.83 | **995** | **4,180** | --- | --- | --- | --- |
| | 12/30/13 | 44.58 | 3602.81 | 3558.23 | 53.83 | **1,830** | **3,600** | --- | --- | --- | --- |
| | 03/24/14 | 44.59 | 3602.81 | 3558.22 | 53.83 | **1,670** | **4,450** | --- | --- | --- | --- |
| | 07/03/14 | 44.65 | 3602.81 | 3558.16 | 53.83 | **1,850** | **4,500** | --- | --- | --- | --- |
| | 09/27/14 | 44.70 | 3602.81 | 3558.11 | 53.83 | **1,110** | **4,030** | --- | --- | --- | --- |
| | 12/12/14 | 44.74 | 3602.81 | 3558.07 | 53.83 | **1,370** | **3,930** | --- | --- | --- | --- |
| MW-4 | 06/17/08 | 43.54 | 3602.35 | 3558.81 | 50.30 | **1,070** | **2,150** | --- | --- | --- | --- |
| | 09/10/08 | 43.61 | 3602.35 | 3558.74 | 50.30 | **820** | **2,070** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 12/17/08 | 43.63 | 3602.35 | 3558.72 | 50.30 | **830** | **1,970** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 03/19/09 | 43.67 | 3602.35 | 3558.68 | 50.30 | **810** | **1,970** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 06/18/09 | 43.68 | 3602.35 | 3558.67 | 50.30 | **740** | **1,860** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 09/17/09 | 43.78 | 3602.35 | 3558.57 | 50.30 | **740** | **1,690** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 12/10/09 | 43.81 | 3602.35 | 3558.54 | 50.30 | **660** | **1,570** | <0.001 | <0.001 | <0.001 | <0.003 |
| | 03/31/10 | 43.83 | 3602.35 | 3558.52 | 50.30 | **691** | **1,560** | --- | --- | --- | --- |
| | 06/16/10 | 43.88 | 3602.35 | 3558.47 | 50.30 | **606** | **1,580** | --- | --- | --- | --- |
| | 09/22/10 | 43.78 | 3602.35 | 3558.57 | 50.30 | **669** | **1,940** | --- | --- | --- | --- |
| | 12/13/10 | 43.81 | 3602.35 | 3558.54 | 50.30 | **646** | **2,020** | --- | --- | --- | --- |
| | 03/17/11 | 43.83 | 3602.35 | 3558.52 | 50.30 | **778** | **2,530** | --- | --- | --- | --- |
| | 06/30/11 | 43.94 | 3602.35 | 3558.41 | 50.30 | **758** | **1,910** | --- | --- | --- | --- |
| | 09/29/11 | 43.93 | 3602.35 | 3558.42 | 50.30 | **662** | **1,180** | --- | --- | --- | --- |
| | 12/20/11 | 44.01 | 3602.35 | 3558.34 | 50.30 | **623** | **1,600** | --- | --- | --- | --- |
| | 03/29/12 | 44.05 | 3602.35 | 3558.30 | 50.30 | **606** | **1,860** | --- | --- | --- | --- |
| | 06/20/12 | 44.09 | 3602.35 | 3558.26 | 50.30 | **797** | **1,790** | --- | --- | --- | --- |
| | 09/26/12 | 44.15 | 3602.35 | 3558.20 | 50.30 | **579** | **1,620** | --- | --- | --- | --- |
| | 12/27/12 | 44.19 | 3602.35 | 3558.16 | 50.30 | **493** | **1,690** | --- | --- | --- | --- |
| | 03/18/13 | 44.20 | 3602.35 | 3558.15 | 50.30 | **608** | **1,590** | --- | --- | --- | --- |
| | 06/11/13 | 44.24 | 3602.35 | 3558.11 | 50.30 | **505** | **1,790** | --- | --- | --- | --- |
| | 09/23/13 | 44.31 | 3602.35 | 3558.04 | 50.30 | **532** | **1,840** | --- | --- | --- | --- |
| | 12/30/13 | 44.36 | 3602.35 | 3557.99 | 50.30 | **632** | **1,440** | --- | --- | --- | --- |
| | 03/24/14 | 44.38 | 3602.35 | 3557.97 | 50.30 | **607** | **1,600** | --- | --- | --- | --- |
| | 07/03/14 | 44.47 | 3602.35 | 3557.88 | 50.30 | **685** | **1,700** | --- | --- | --- | --- |
| | 09/27/14 | 44.48 | 3602.35 | 3557.87 | 50.30 | **426** | **1,400** | --- | --- | --- | --- |
| | 12/12/14 | 44.46 | 3602.35 | 3557.89 | 50.30 | **494** | **1,530** | --- | --- | --- | --- |
| | | | | WQCC Standards | | 250 | 1000 | 0.01 | 0.75 | 0.75 | 0.62 |

* TDS in MW-1 on 09/22/10 is not consistent with previous sampling events nor with chloride value. Likely due to lab error (not filtered?)
Total Dissolved Soilds (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L
Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards
AMSL - Above Mean Sea Level; BTOC - Below Top of Casing
--- Indicates not sampled, analyzed, or measured for this parameter




| Date | Well ID | DTW | GW Elev | Cl | TDS |
|---|---|---|---|---|---|
| 3/24/14 | MW-1 | 44.64 | 3558.57 | 643 | 1660 |
| | MW-2 | 44.07 | 3558.40 | 575 | 1630 |
| | MW-3 | 44.59 | 3558.22 | 1,670 | 4450 |
| | MW-4 | 44.38 | 3557.97 | 607 | 1600 |
| 7/3/14 | MW-1 | 44.73 | 3558.48 | 717 | 1820 |
| | MW-2 | 44.15 | 3558.32 | 691 | 1660 |
| | MW-3 | 44.65 | 3558.16 | 1,850 | 4500 |
| | MW-4 | 44.47 | 3557.88 | 685 | 1700 |
| 9/27/14 | MW-1 | 44.74 | 3558.47 | 428 | 1580 |
| | MW-2 | 44.17 | 3558.30 | 442 | 1400 |
| | MW-3 | 44.70 | 3558.11 | 1,110 | 4030 |
| | MW-4 | 44.48 | 3557.87 | 426 | 1400 |
| 12/12/14 | MW-1 | 44.76 | 3558.45 | 468 | 1630 |
| | MW-2 | 44.18 | 3558.29 | 463 | 1510 |
| | MW-3 | 44.74 | 3558.07 | 1,370 | 3930 |
| | MW-4 | 44.46 | 3557.89 | 494 | 1530 |

Most Recent Sampling Date:
December 12, 2014

TRIDENT ENVIRONMENTAL

PRIDE ENERGY COMPANY
STATE 36 #2
T19S - R37E - Section 36 - Unit O
Lea County, New Mexico

FIGURE 1

CHLORIDE, TDS, & BTEX CONCENTRATIONS AND GROUNDWATER ELEVATION MAP

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

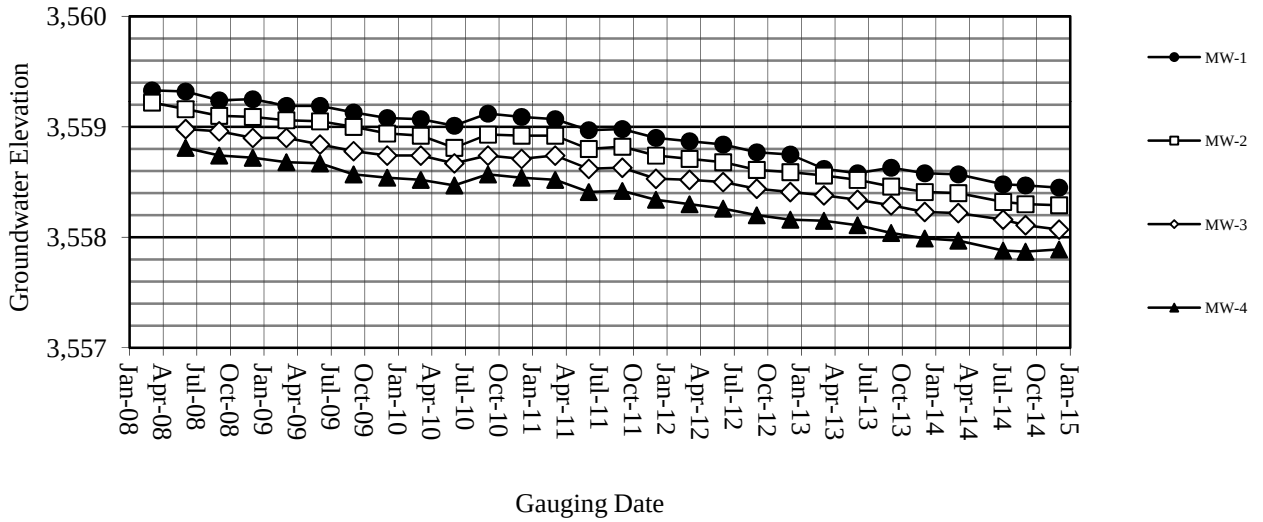



**Figure 3: Chloride Concentrations vs Time**

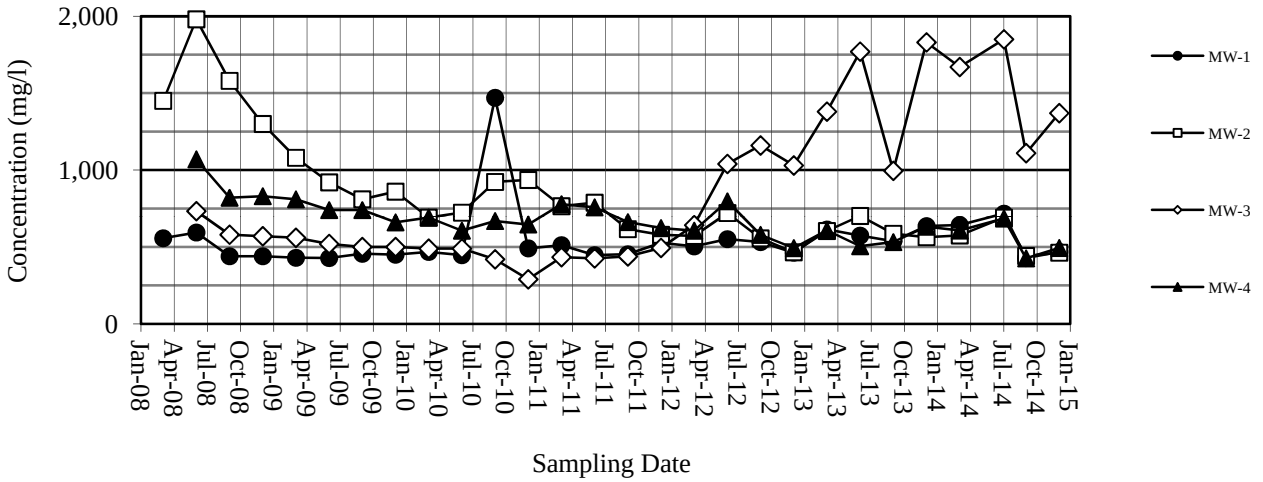
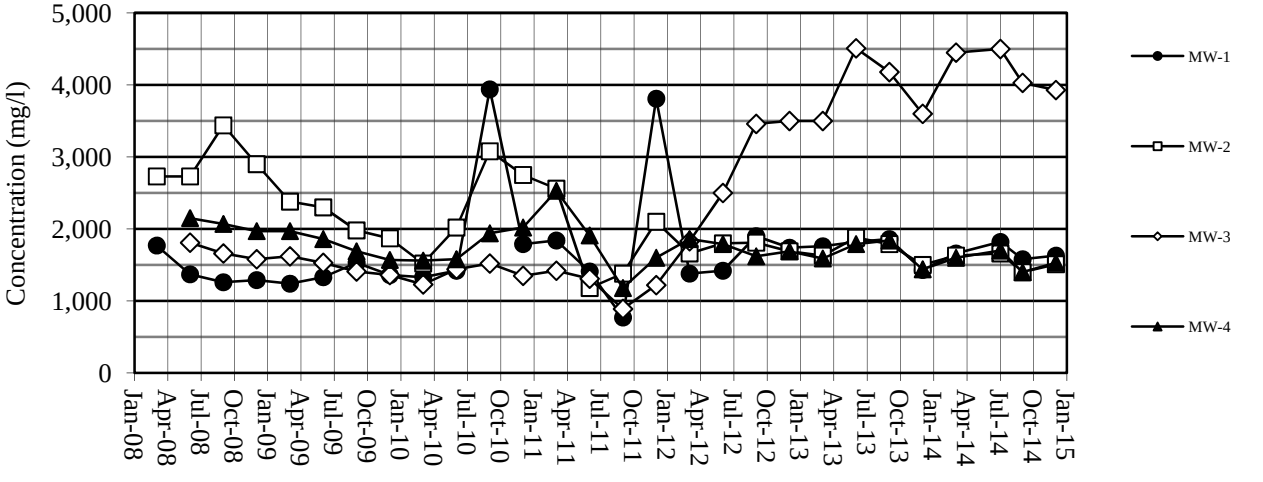
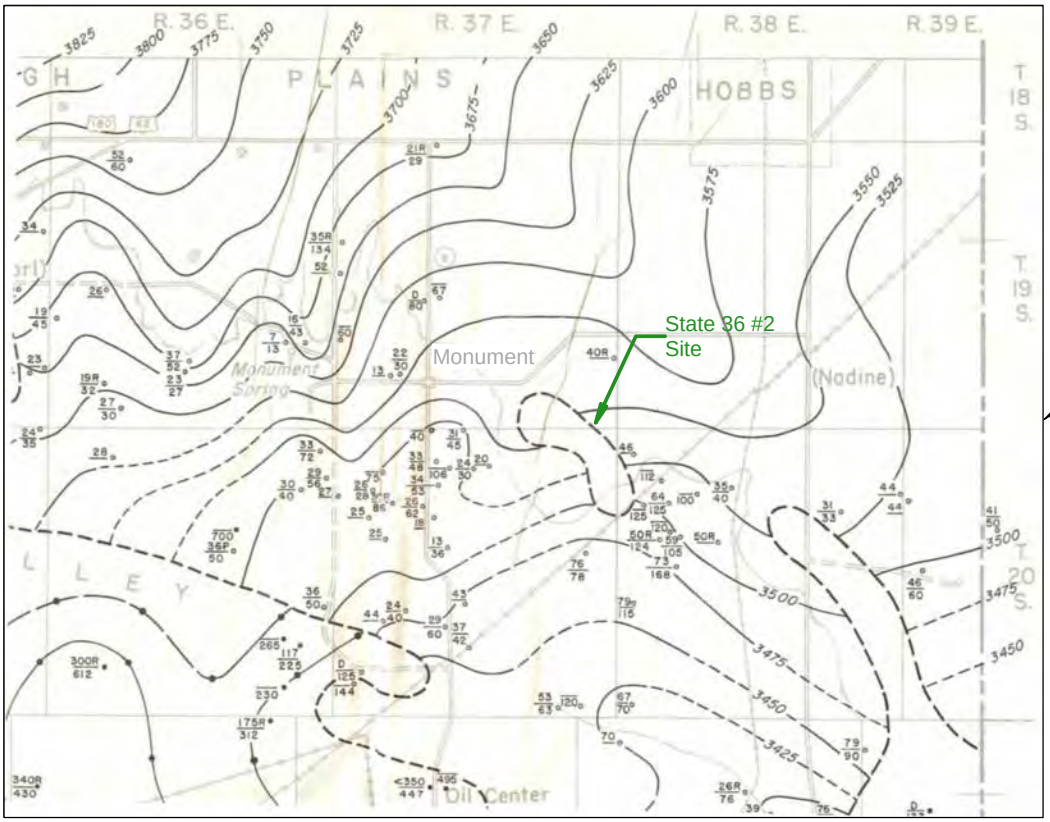
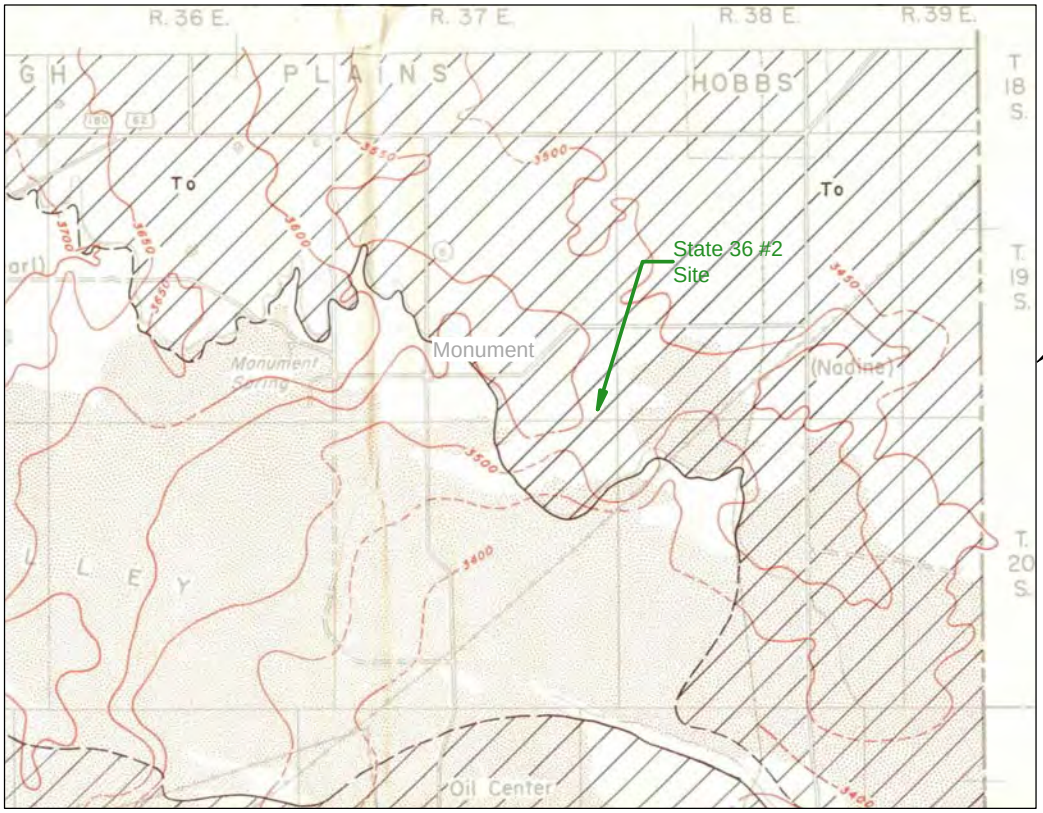



**Figure 4: TDS Concentrations vs Time**






Water Table Elevation Map
based on 1953-1954 data




Red Bed Surface Map
(base of aquifer)

TRIDENT ENVIRONMENTAL

PRIDE ENERGY COMPANY
STATE 36 #2
T19S - R37E - Section 36 - Unit O
Lea County, New Mexico

FIGURE 5
Water Table and Red Bed
Surface Maps
(Nicholson & Clebsch, 1954)

# WELL SAMPLING DATA FORM

CLIENT: Pride Energy Company
SITE NAME: State 36 #2 (OCD Case # 1R501)
SITE LOCATION: T19S R37E Sec 36 Unit O, 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. °C | Cond. mS/cm | pH | Purge Method | PHYSICAL APPEARANCE AND REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| First | 3/24/14 | 15:30 | MW-1 | 44.64 | 52.37 | 7.73 | 0.16 | 1.2 | 10 | 8.1 | 19.6 | 2.24 | 6.76 | Pump | Clear |
| | | 18:15 | MW-2 | 44.07 | 57.61 | 13.54 | 0.16 | 2.2 | 15 | 6.9 | 19.3 | 2.27 | 6.91 | Pump | Clear Cloudy, but cleared during purge |
| | | 16:00 | MW-3 | 44.59 | 53.83 | 9.24 | 0.16 | 1.5 | 10 | 6.8 | 19.8 | 4.87 | 6.67 | Pump | Clear |
| | | 17:15 | MW-4 | 44.38 | 50.30 | 5.92 | 0.16 | 0.9 | 10 | 10.6 | 19.2 | 2.33 | 6.87 | Pump | Clear |
| Second | 7/3/14 | 17:30 | MW-1 | 44.73 | 52.37 | 7.64 | 0.16 | 1.2 | 10 | 8.2 | 21.6 | 1.98 | 7.13 | Pump | Clear |
| | | 19:00 | MW-2 | 44.15 | 57.61 | 13.46 | 0.16 | 2.2 | 15 | 7.0 | 20.8 | 1.97 | 7.08 | Pump | Clear Cloudy, but cleared during purge |
| | | 18:00 | MW-3 | 44.65 | 53.83 | 9.18 | 0.16 | 1.5 | 10 | 6.8 | 21.8 | 4.17 | 6.90 | Pump | Clear |
| | | 18:30 | MW-4 | 44.47 | 50.30 | 5.83 | 0.16 | 0.9 | 10 | 10.7 | 21.2 | 2.03 | 7.19 | Pump | Clear |
| Third | 9/27/14 | 10:00 | MW-1 | 44.74 | 52.37 | 7.63 | 0.16 | 1.2 | 12 | 9.8 | 21.6 | 2.28 | 7.14 | Pump | Clear |
| | | 10:30 | MW-2 | 44.17 | 57.61 | 13.44 | 0.16 | 2.2 | 16 | 7.4 | 21.1 | 2.26 | 7.11 | Pump | Clear |
| | | 11:30 | MW-3 | 44.70 | 53.83 | 9.13 | 0.16 | 1.5 | 12 | 8.2 | 20.7 | 4.33 | 7.03 | Pump | Clear |
| | | 11:00 | MW-4 | 44.48 | 50.30 | 5.82 | 0.16 | 0.9 | 12 | 12.9 | 20.2 | 2.30 | 7.29 | Pump | Clear |
| Fourth | 12/12/14 | 15:30 | MW-1 | 44.76 | 52.37 | 7.61 | 0.16 | 1.2 | 10 | 8.2 | 18.7 | 2.11 | 7.14 | Pump | Clear |
| | | 15:45 | MW-2 | 44.18 | 57.61 | 13.43 | 0.16 | 2.1 | 15 | 7.0 | 19.0 | 2.12 | 7.20 | Pump | Clear Cloudy, but cleared during purge |
| | | 16:20 | MW-3 | 44.74 | 53.83 | 9.09 | 0.16 | 1.5 | 10 | 6.9 | 18.5 | 4.18 | 7.17 | Pump | Clear Cloudy, but cleared during purge |
| | | 16:45 | MW-4 | 44.46 | 50.30 | 5.84 | 0.16 | 0.9 | 10 | 10.7 | 19.2 | 2.13 | 7.16 | Pump | Clear Cloudy, but cleared 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 analyical laboratory for chloride (300.1) and TDS (160.1) analysis.

Note: Gate may be locked for access.
One of the locks combo is 5010

# LABORATORY ANALYTICAL REPORTS

# AND

# CHAINS OF CUSTODY

***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: State 36 #2

Location: T19S-R37E, Sec 36, Unit Letter O~ Lea County, NM

Lab Order Number: 4C26014

NELAP/TCEQ # T104704156-13-3

Report Date: 04/09/14

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

Project: Pride Energy Company
Project Number: State 36 #2
Project Manager: Matt Pride

Fax: (918) 524-9292

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| MW-1 | 4C26014-01 | Water | 03/24/14 15:30 | 03-26-2014 11:55 |
| MW-2 | 4C26014-02 | Water | 03/24/14 18:15 | 03-26-2014 11:55 |
| MW-3 | 4C26014-03 | Water | 03/24/14 16:00 | 03-26-2014 11:55 |
| MW-4 | 4C26014-04 | Water | 03/24/14 17:15 | 03-26-2014 11:55 |

| | | |
|---|---|---|
| Pride Energy Company | Project: Pride Energy Company | Fax: (918) 524-9292 |
| P.O. BOX 701950 | Project Number: State 36 #2 | |
| Tulsa OK, 74170-1950 | Project Manager: Matt Pride | |

## MW-1

**4C26014-01 (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** | **643** | 25.0 | mg/L | 50 | P4C2703 | 03/27/14 | 03/28/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1660** | 20.0 | mg/L | 1 | P4D0203 | 03/28/14 | 04/02/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Pride Energy Company | Project: Pride Energy Company | Fax: (918) 524-9292 |
| P.O. BOX 701950 | Project Number: State 36 #2 | |
| Tulsa OK, 74170-1950 | Project Manager: Matt Pride | |

## MW-2

**4C26014-02 (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** | **575** | 25.0 | mg/L | 50 | P4C2703 | 03/27/14 | 03/28/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1630** | 20.0 | mg/L | 1 | P4D0203 | 03/28/14 | 04/02/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Pride Energy Company | Project: Pride Energy Company | Fax: (918) 524-9292 |
| P.O. BOX 701950 | Project Number: State 36 #2 | |
| Tulsa OK, 74170-1950 | Project Manager: Matt Pride | |

## MW-3

**4C26014-03 (Water)**

**Permian Basin Environmental Lab, L.P.**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters by EPA / Standard Methods** | | | | | | | | | |
| **Chloride** | **1670** | 25.0 | mg/L | 50 | P4C2703 | 03/27/14 | 03/28/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **4450** | 20.0 | mg/L | 1 | P4D0203 | 03/28/14 | 04/02/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Pride Energy Company | Project: Pride Energy Company | Fax: (918) 524-9292 |
| P.O. BOX 701950 | Project Number: State 36 #2 | |
| Tulsa OK, 74170-1950 | Project Manager: Matt Pride | |

## MW-4

**4C26014-04 (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** | **607** | 25.0 | mg/L | 50 | P4C2703 | 03/27/14 | 03/28/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1600** | 20.0 | mg/L | 1 | P4D0203 | 03/28/14 | 04/02/14 | EPA 160.1 | |

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

Project: Pride Energy Company
Project Number: State 36 #2
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 P4C2703 - *** DEFAULT PREP *** ** | | | | | | | | | | |
| **Blank (P4C2703-BLK1)** | | | | Prepared & Analyzed: 03/27/14 | | | | | | |
| Chloride | ND | 0.500 | mg/L | | | | | | | |
| **LCS (P4C2703-BS1)** | | | | Prepared & Analyzed: 03/27/14 | | | | | | |
| Chloride | 10.5 | 0.500 | mg/L | 10.0 | | 105 | 80-120 | | | |
| **LCS Dup (P4C2703-BSD1)** | | | | Prepared & Analyzed: 03/27/14 | | | | | | |
| Chloride | 10.5 | 0.500 | mg/L | 10.0 | | 105 | 80-120 | 0.00952 | 20 | |
| **Duplicate (P4C2703-DUP1)** | | **Source: 4C26012-01** | | Prepared: 03/27/14 Analyzed: 03/28/14 | | | | | | |
| Chloride | 2920 | 100 | mg/L | | 2920 | | | 0.164 | 20 | |
| **Matrix Spike (P4C2703-MS1)** | | **Source: 4C26012-01** | | Prepared: 03/27/14 Analyzed: 03/28/14 | | | | | | |
| Chloride | 5360 | 100 | mg/L | 2500 | 2920 | 97.8 | 80-120 | | | |
| **Batch P4D0203 - *** DEFAULT PREP *** ** | | | | | | | | | | |
| **Blank (P4D0203-BLK1)** | | | | Prepared: 03/28/14 Analyzed: 04/02/14 | | | | | | |
| Total Dissolved Solids | ND | 20.0 | mg/L | | | | | | | |
| **Duplicate (P4D0203-DUP1)** | | **Source: 4C26014-04** | | Prepared: 03/28/14 Analyzed: 04/02/14 | | | | | | |
| Total Dissolved Solids | 1580 | 20.0 | mg/L | | 1600 | | | 1.01 | 20 | |

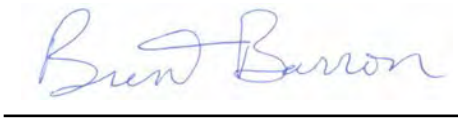
Pride Energy Company
P.O. BOX 701950
Tulsa OK, 74170-1950

Project: Pride Energy Company
Project Number: State 36 #2
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: 4/9/2014

Brent Barron, Laboratory Director/Technical Director

# PBELAB

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

Page 1 of 1

**COC No.:** 1R-501-032414

## 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 #: State 36 #2 | Project Name: Pride Energy Company |
| Project Location: T19S-R37E, Sec 36, Unit Letter O ~ Lea County, NM | Sampler Signature: |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | FIELD CODE (H026014) | (G)rab or (C)omp | # CONTAINERS | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCL (BTEX only) | $HNO_3$ | $NaHSO_4$ | $H_2SO_4$ | ICE | NONE | SAMPLING: DATE | TIME | 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, SO4, CO3, HCO3) | Total Dissolved Solids (160.1 or SM2540C) | Chloride / Cl⁻ (SM4500 B or 300.1) | | Turn Around Time ~ 24 Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -01 | MW-1 | G | 1 | X | | | | | | | | X | | 3/24/14 | 1530 | | | | | | | | | | | | | | | X | X | | |
| -02 | MW-2 | G | 1 | X | | | | | | | | X | | 3/24/14 | 1815 | | | | | | | | | | | | | | | X | X | | |
| -03 | MW-3 | G | 1 | X | | | | | | | | X | | 3/24/14 | 1600 | | | | | | | | | | | | | | | X | X | | |
| -04 | MW-4 | G | 1 | X | | | | | | | | X | | 3/24/14 | 1715 | | | | | | | | | | | | | | | X | X | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 3/26/14 | Time: 11:55 | Received by: Date: Time: |
| Relinquished by: | Date: | Time: | Received By: (Laboratory Staff) Date: 3-26-14 Time: 1155 |

Phone Results: ☐ Yes ☒ No
Fax Results: ☐ Yes ☒ No Additional Fax Number:

**REMARKS:** Samples not field filtered

**Email Results to:**
gil@trident-environmental.com
mattp@pride-energy.com

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition 4.5 — Cool: Yes ☑ / No ☐ — Intact: Yes ☑ / No ☐

CHECKED BY: (Initials)

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

PBELAB

# Analytical Report

**Prepared for:**

Gilbert Vandeventer

Trident Environmental

P.O. Box 12177

Odessa, TX 79768

Project: Pride Energy Company

Project Number: State 36 #2

Location: T19S-R37E, Sec 36, Unit Letter O~ Lea County, NM

Lab Order Number: 4G07004

NELAP/TCEQ # T104704156-13-3

Report Date: 07/21/14

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| MW-1 | 4G07004-01 | Water | 07/03/14 17:30 | 07-04-2014 13:30 |
| MW-2 | 4G07004-02 | Water | 07/03/14 19:00 | 07-04-2014 13:30 |
| MW-3 | 4G07004-03 | Water | 07/03/14 18:00 | 07-04-2014 13:30 |
| MW-4 | 4G07004-04 | Water | 07/03/14 18:30 | 07-04-2014 13:30 |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-1

**4G07004-01 (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** | **717** | 12.5 | mg/L | 25 | P4G1703 | 07/14/14 | 07/17/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1820** | 20.0 | mg/L | 1 | P4G1509 | 07/08/14 | 07/15/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-2

**4G07004-02 (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** | **691** | 12.5 | mg/L | 25 | P4G1703 | 07/14/14 | 07/17/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1660** | 20.0 | mg/L | 1 | P4G1509 | 07/08/14 | 07/15/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-3

**4G07004-03 (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** | **1850** | 25.0 | mg/L | 50 | P4G1703 | 07/14/14 | 07/17/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **4500** | 20.0 | mg/L | 1 | P4G1509 | 07/08/14 | 07/15/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-4

**4G07004-04 (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** | **685** | 12.5 | mg/L | 25 | P4G1703 | 07/14/14 | 07/17/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1700** | 20.0 | mg/L | 1 | P4G1509 | 07/08/14 | 07/15/14 | EPA 160.1 | |

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

Project: Pride Energy Company
Project Number: State 36 #2
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

## 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 P4G1509 - *** DEFAULT PREP *** ** | | | | | | | | | | |
| **Blank (P4G1509-BLK1)** | | | | Prepared & Analyzed: 07/15/14 | | | | | | |
| Total Dissolved Solids | ND | 20.0 | mg/L | | | | | | | |
| **Duplicate (P4G1509-DUP1)** | | **Source: 4G03014-01** | | Prepared & Analyzed: 07/15/14 | | | | | | |
| Total Dissolved Solids | 815 | 20.0 | mg/L | | 815 | | | 0.00 | 20 | |
| **Duplicate (P4G1509-DUP2)** | | **Source: 4G07004-04** | | Prepared & Analyzed: 07/15/14 | | | | | | |
| Total Dissolved Solids | 1660 | 20.0 | mg/L | | 1700 | | | 2.38 | 20 | |
| **Batch P4G1703 - *** DEFAULT PREP *** ** | | | | | | | | | | |
| **Blank (P4G1703-BLK1)** | | | | Prepared: 07/14/14 Analyzed: 07/17/14 | | | | | | |
| Chloride | ND | 0.500 | mg/L | | | | | | | |
| **LCS (P4G1703-BS1)** | | | | Prepared: 07/14/14 Analyzed: 07/17/14 | | | | | | |
| Chloride | 9.85 | 0.500 | mg/L | 10.0 | | 98.5 | 80-120 | | | |
| **LCS Dup (P4G1703-BSD1)** | | | | Prepared: 07/14/14 Analyzed: 07/17/14 | | | | | | |
| Chloride | 9.36 | 0.500 | mg/L | 10.0 | | 93.6 | 80-120 | 5.06 | 20 | |

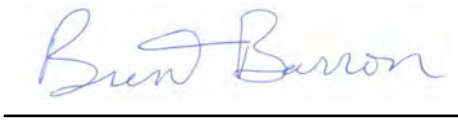
Trident Environmental
P.O. Box 12177
Odessa TX, 79768

Project: Pride Energy Company
Project Number: State 36 #2
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: 7/21/2014

Brent Barron, Laboratory Director/Technical Director

# PBELAB

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



**COC No.:** 1R501-0714

## 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 #: State 36 #2 | Project Name: Pride Energy Company |
| Project Location: T19S-R37E, Sec 36, Unit Letter O ~ Lea County, NM | Sampler Signature: |

| LAB # (LAB USE ONLY) | FIELD CODE | (G)rab or (C)omp | # CONTAINERS | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCL (BTEX only) | $HNO_3$ | $NaHSO_4$ | $H_2SO_4$ | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 460700401 | MW-1 | G | 1 | X | | | | | | | | X | | 7/3/14 | 1730 |
| -02 | MW-2 | G | 1 | X | | | | | | | | X | | 7/3/14 | 1900 |
| -03 | MW-3 | G | 1 | X | | | | | | | | X | | 7/3/14 | 1800 |
| -04 | MW-4 | G | 1 | X | | | | | | | | X | | 7/3/14 | 1830 |

### ANALYSIS REQUEST
(Circle or Specify Method No.)

| 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 / $Cl^-$ (SM4500 B or 300.1) | | Turn Around Time ~ 24 Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | X | X | | |
| | | | | | | | | | | | | | | | X | X | | |
| | | | | | | | | | | | | | | | X | X | | |
| | | | | | | | | | | | | | | | X | X | | |

Relinquished by: _____ Date: 7/4/14 Time: 1:30

Received by: _____ Date: Time:

Phone Results: [ ] Yes [X] No

Fax Results: [ ] Yes [X] No Additional Fax Number:

Relinquished by: _____ Date: Time:

Received By: (Laboratory Staff) _____ Date: 7/4/14 Time: 1330

**REMARKS:** Samples not field filtered

**Email Results to:**
gil@trident-environmental.com
mattp@pride-energy.com

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition 3ONCF — Cool: Yes ✓ / No; Intact: Yes ✓ / No

CHECKED BY: (Initials) BS

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

PBELAB

# Analytical Report

**Prepared for:**

Gilbert Vandeventer

Trident Environmental

P.O. Box 12177

Odessa, TX 79768

Project: Pride Energy Company

Project Number: State 36 #2

Location: T19S-R37E, Sec 36, Unit Letter O~ Lea County, NM

Lab Order Number: 4J02017

NELAP ACCREDITED TNI LABORATORY

**NELAP/TCEQ # T104704156-13-3**

Report Date: 10/10/14

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

Project: Pride Energy Company
Project Number: State 36 #2
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| MW-1 | 4J02017-01 | Water | 09/27/14 10:00 | 10-02-2014 12:50 |
| MW-2 | 4J02017-02 | Water | 09/27/14 10:30 | 10-02-2014 12:50 |
| MW-3 | 4J02017-03 | Water | 09/27/14 11:30 | 10-02-2014 12:50 |
| MW-4 | 4J02017-04 | Water | 09/27/14 11:00 | 10-02-2014 12:50 |

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

Project: Pride Energy Company
Project Number: State 36 #2
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

## MW-1

**4J02017-01 (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** | **428** | 12.5 | mg/L | 25 | P4J1002 | 10/10/14 | 10/10/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1580** | 20.0 | mg/L | 1 | P4J0702 | 10/03/14 | 10/03/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-2

**4J02017-02 (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** | **442** | 12.5 | mg/L | 25 | P4J1002 | 10/10/14 | 10/10/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1400** | 20.0 | mg/L | 1 | P4J0702 | 10/03/14 | 10/03/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-3

**4J02017-03 (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** | **1110** | 25.0 | mg/L | 50 | P4J1002 | 10/10/14 | 10/10/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **4030** | 20.0 | mg/L | 1 | P4J0702 | 10/03/14 | 10/03/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-4

**4J02017-04 (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** | **426** | 12.5 | mg/L | 25 | P4J1002 | 10/10/14 | 10/10/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1400** | 20.0 | mg/L | 1 | P4J0702 | 10/03/14 | 10/03/14 | EPA 160.1 | |

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

Project: Pride Energy Company
Project Number: State 36 #2
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

## 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 P4J0702 - *** DEFAULT PREP *** ** | | | | | | | | | | |
| **Blank (P4J0702-BLK1)** | | | | Prepared & Analyzed: 10/03/14 | | | | | | |
| Total Dissolved Solids | ND | 20.0 | mg/L | | | | | | | |
| **Duplicate (P4J0702-DUP1)** | | **Source: 4H28001-01** | | Prepared & Analyzed: 10/03/14 | | | | | | |
| Total Dissolved Solids | 400 | 20.0 | mg/L | | 372 | | | 7.25 | 20 | |
| **Duplicate (P4J0702-DUP2)** | | **Source: 4H28002-01** | | Prepared & Analyzed: 10/03/14 | | | | | | |
| Total Dissolved Solids | 164 | 20.0 | mg/L | | 160 | | | 2.47 | 20 | |
| **Batch P4J1002 - *** DEFAULT PREP *** ** | | | | | | | | | | |
| **Blank (P4J1002-BLK1)** | | | | Prepared & Analyzed: 10/10/14 | | | | | | |
| Chloride | ND | 0.500 | mg/L | | | | | | | |
| **LCS (P4J1002-BS1)** | | | | Prepared & Analyzed: 10/10/14 | | | | | | |
| Chloride | 9.93 | 0.500 | mg/L | 10.0 | | 99.3 | 80-120 | | | |
| **LCS Dup (P4J1002-BSD1)** | | | | Prepared & Analyzed: 10/10/14 | | | | | | |
| Chloride | 9.89 | 0.500 | mg/L | 10.0 | | 98.9 | 80-120 | 0.383 | 20 | |
| **Duplicate (P4J1002-DUP1)** | | **Source: 4J02015-01** | | Prepared & Analyzed: 10/10/14 | | | | | | |
| Chloride | 2040 | 50.0 | mg/L | | 2030 | | | 0.373 | 20 | |
| **Matrix Spike (P4J1002-MS1)** | | **Source: 4J02015-01** | | Prepared & Analyzed: 10/10/14 | | | | | | |
| Chloride | 3110 | 50.0 | mg/L | 1000 | 2030 | 108 | 80-120 | | | |

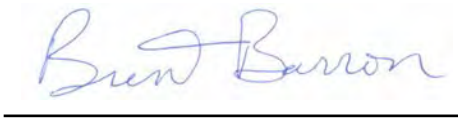
Trident Environmental
P.O. Box 12177
Odessa TX, 79768

Project: Pride Energy Company
Project Number: State 36 #2
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: 10/10/2014

Brent Barron, Laboratory Director/Technical Director

# PBELAB

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



**COC No.:** 1R501-0914

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # BILL 4502017

| | |
|---|---|
| Company Name: Trident Environmental | BILL TO Company: Pride Energy Company / Attention: Matt Pride |
| 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 #: State 36 #2 | Project Name: Pride Energy Company |
| Project Location: T19S-R37E, Sec 36, Unit Letter O ~ Lea County, NM | Sampler Signature: |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | FIELD CODE (4502017) | (G)rab or (C)omp | # CONTAINERS | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCL (BTEX only) | $HNO_3$ | $NaHSO_4$ | $H_2SO_4$ | ICE | NONE | SAMPLING: DATE | TIME | 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, SO4, CO3, HCO3) | Total Dissolved Solids (160.1 or SM2540C) | Chloride / $Cl^-$ (SM4500 B or 300.1) | | Turn Around Time ~ 24 Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -01 | MW-1 | G | 1 | X | | | | | | | | X | | 9/27/14 | 1000 | | | | | | | | | | | | | | | | X | X | | |
| -02 | MW-2 | G | 1 | X | | | | | | | | X | | 9/27/14 | 1030 | | | | | | | | | | | | | | | | X | X | | |
| -03 | MW-3 | G | 1 | X | | | | | | | | X | | 9/27/14 | 1130 | | | | | | | | | | | | | | | | X | X | | |
| -04 | MW-4 | G | 1 | X | | | | | | | | X | | 9/27/14 | 1100 | | | | | | | | | | | | | | | | X | X | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 10/2/14 | Time: 12:50 | Received by: |
| Relinquished by: | Date: | Time: | Received By: (Laboratory Staff) Date: 10/2/14 Time: 12:50 |

Phone Results: ☐ Yes X No
Fax Results: ☐ Yes X No Additional Fax Number:

**REMARKS:** Samples not field filtered

**Email Results to:**
gil@trident-environmental.com
mattp@pride-energy.com

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: Cool: Yes ☐ No ☐ Intact: Yes ☐ No ☐

CHECKED BY: (Initials)

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

PBELAB

# Analytical Report

**Prepared for:**

Gilbert Vandeventer

Trident Environmental

P.O. Box 12177

Odessa, TX 79768

Project: Pride Energy Company

Project Number: State 36 #2

Location: T19S-R37E, Sec 36, Unit Letter O~ Lea County, NM

Lab Order Number: 4L15010

NELAP/TCEQ # T104704156-13-3

Report Date: 12/24/14

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

Project: Pride Energy Company
Project Number: State 36 #2
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| MW-1 | 4L15010-01 | Water | 12/12/14 15:30 | 12-15-2014 15:40 |
| MW-2 | 4L15010-02 | Water | 12/12/14 15:45 | 12-15-2014 15:40 |
| MW-3 | 4L15010-03 | Water | 12/12/14 16:20 | 12-15-2014 15:40 |
| MW-4 | 4L15010-04 | Water | 12/12/14 16:45 | 12-15-2014 15:40 |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-1

**4L15010-01 (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** | **468** | 25.0 | mg/L | 50 | P4L1807 | 12/16/14 | 12/18/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1630** | 20.0 | mg/L | 1 | P4L1902 | 12/19/14 | 12/19/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-2

**4L15010-02 (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** | **463** | 25.0 | mg/L | 50 | P4L1807 | 12/16/14 | 12/18/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1510** | 20.0 | mg/L | 1 | P4L1902 | 12/19/14 | 12/19/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-3

**4L15010-03 (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** | **1370** | 25.0 | mg/L | 50 | P4L1807 | 12/16/14 | 12/18/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **3930** | 20.0 | mg/L | 1 | P4L1902 | 12/19/14 | 12/19/14 | EPA 160.1 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## MW-4

**4L15010-04 (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** | **494** | 25.0 | mg/L | 50 | P4L1807 | 12/16/14 | 12/18/14 | EPA 300.0 | |
| **Total Dissolved Solids** | **1530** | 20.0 | mg/L | 1 | P4L1902 | 12/19/14 | 12/19/14 | EPA 160.1 | |

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

Project: Pride Energy Company
Project Number: State 36 #2
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

## 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 P4L1807 - *** DEFAULT PREP *** ** | | | | | | | | | | |
| **Blank (P4L1807-BLK1)** | | | | Prepared: 12/16/14 Analyzed: 12/18/14 | | | | | | |
| Chloride | ND | 0.500 | mg/L | | | | | | | |
| **LCS (P4L1807-BS1)** | | | | Prepared: 12/16/14 Analyzed: 12/18/14 | | | | | | |
| Chloride | 20.5 | 0.500 | mg/L | 20.0 | | 102 | 80-120 | | | |
| **LCS Dup (P4L1807-BSD1)** | | | | Prepared: 12/16/14 Analyzed: 12/18/14 | | | | | | |
| Chloride | 20.4 | 0.500 | mg/L | 20.0 | | 102 | 80-120 | 0.597 | 20 | |
| **Duplicate (P4L1807-DUP1)** | | **Source: 4L15007-01** | | Prepared: 12/16/14 Analyzed: 12/18/14 | | | | | | |
| Chloride | 2650 | 100 | mg/L | | 2640 | | | 0.514 | 20 | |
| **Matrix Spike (P4L1807-MS1)** | | **Source: 4L15007-01** | | Prepared: 12/16/14 Analyzed: 12/18/14 | | | | | | |
| Chloride | 4380 | 100 | mg/L | 2000 | 2640 | 87.2 | 80-120 | | | |
| **Batch P4L1902 - *** DEFAULT PREP *** ** | | | | | | | | | | |
| **Blank (P4L1902-BLK1)** | | | | Prepared & Analyzed: 12/19/14 | | | | | | |
| Total Dissolved Solids | ND | 20.0 | mg/L | | | | | | | |
| **Duplicate (P4L1902-DUP1)** | | **Source: 4L15010-04** | | Prepared & Analyzed: 12/19/14 | | | | | | |
| Total Dissolved Solids | 1500 | 20.0 | mg/L | | 1530 | | | 1.98 | 20 | |

| | | |
|---|---|---|
| Trident Environmental | Project: Pride Energy Company | Fax: (432) 413-9968 |
| P.O. Box 12177 | Project Number: State 36 #2 | |
| Odessa TX, 79768 | Project Manager: Gilbert Vandeventer | |

## 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: 12/24/2014

Brent Barron, Laboratory Director/Technical Director

# PBELAB

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

4L15010



COC No.: 1R501-1214

## 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 #: State 36 #2 | Project Name: Pride Energy Company |
| Project Location: T19S-R37E, Sec 36, Unit Letter O ~ Lea County, NM | Sampler Signature: |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | FIELD CODE | (G)rab or (C)omp | # CONTAINERS | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCL (BTEX only) | $HNO_3$ | $NaHSO_4$ | $H_2SO_4$ | ICE | NONE | SAMPLING: DATE | TIME | MTBE 8021B/602 | BTEX 8021B | 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, SO4, CO3, HCO3) | Total Dissolved Solids (160.1 or SM2540C) | Chloride / Cl (SM4500 B or 300.1) | | Turn Around Time ~ 24 Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -01 | MW-1 | G | 1 | X | | | | | | | | X | | 12-12-14 | 1530 | | | | | | | | | | | | | | | | X | X | | |
| -02 | MW-2 | G | 1 | X | | | | | | | | X | | 12-12-14 | 1545 | | | | | | | | | | | | | | | | X | X | | |
| -03 | MW-3 | G | 1 | X | | | | | | | | X | | 12-12-14 | 1620 | | | | | | | | | | | | | | | | X | X | | |
| -04 | MW-4 | G | 1 | X | | | | | | | | X | | 12-12-14 | 1645 | | | | | | | | | | | | | | | | X | X | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 12/15/14 Time: 1540 | Received by: | Date: Time: |
| Relinquished by: | Date: Time: | Received By: (Laboratory Staff) | Date: 12/15/14 Time: 1540 |

Phone Results: [ ] Yes [X] No
Fax Results: [ ] Yes [X] No Additional Fax Number:

**REMARKS:** Samples not field filtered

**Email Results to:**
gil@trident-environmental.com
mattp@pride-energy.com

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: 5.4° — Cool: Yes ✓ / No — Intact: Yes ✓ / No

CHECKED BY: (Initials)