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1RP - 501

PRIDE ENERGY COMPANY

8/12/2016

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TRIDENT ENVIRONMENTAL

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

HOBBSOCD

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RECEIVED

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)

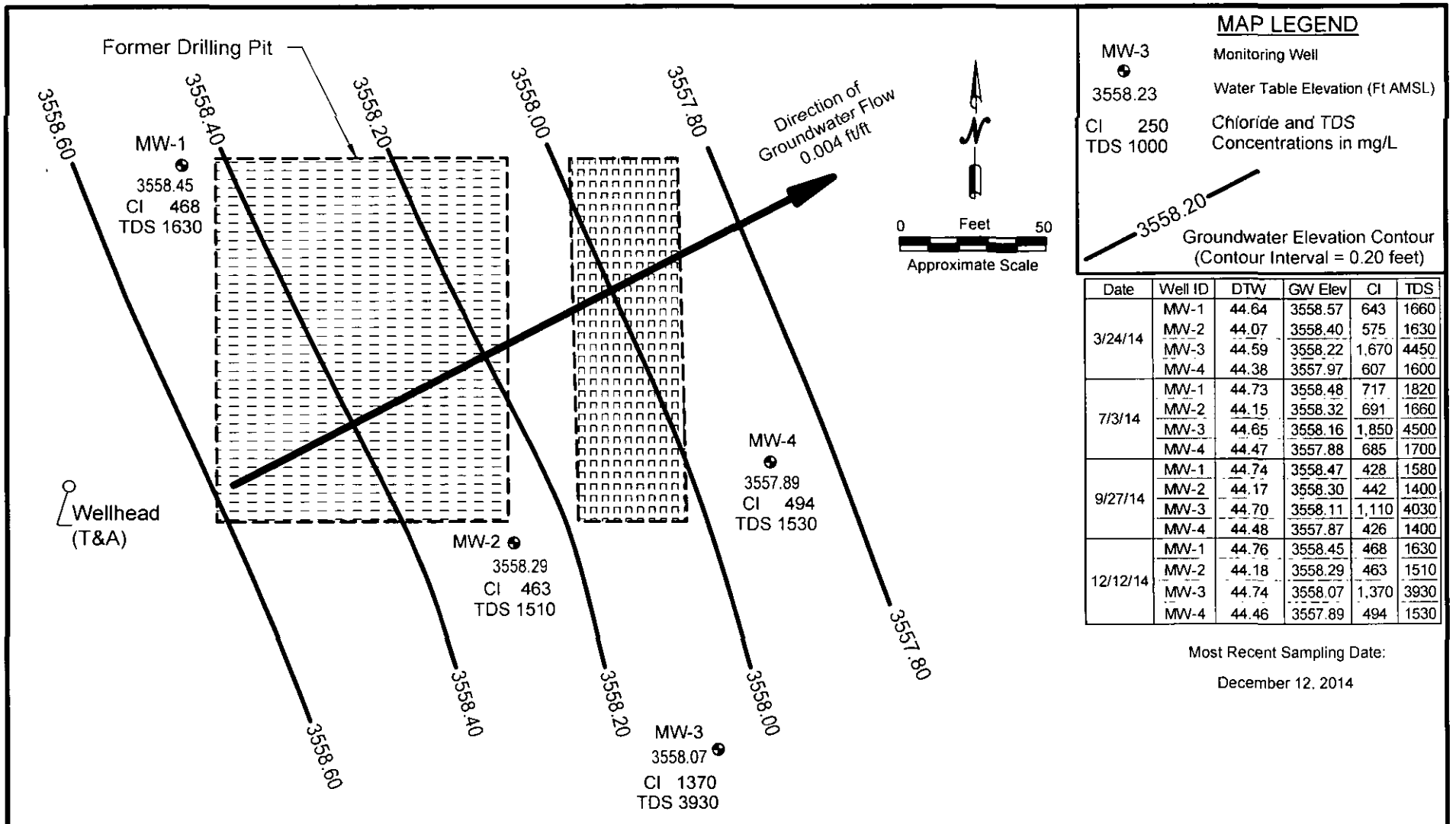
Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)	Well Depth (feet BTOC)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Xylene (mg/L)
MW-1	02/25/08	43.80	3603.21	3559.41	52.40	489	---	---	---	---	---
	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

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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

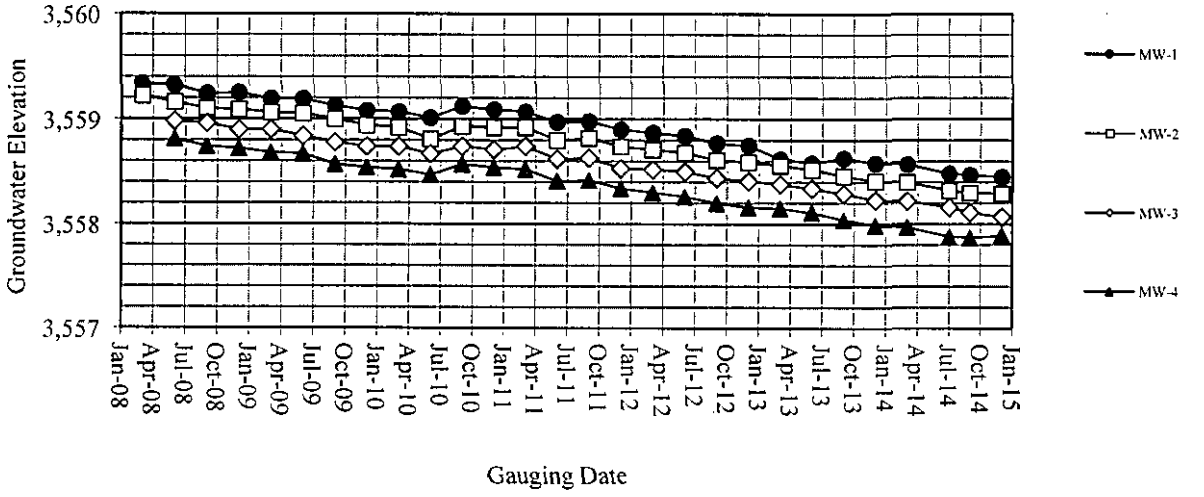


Figure 3: Chloride Concentrations vs Time

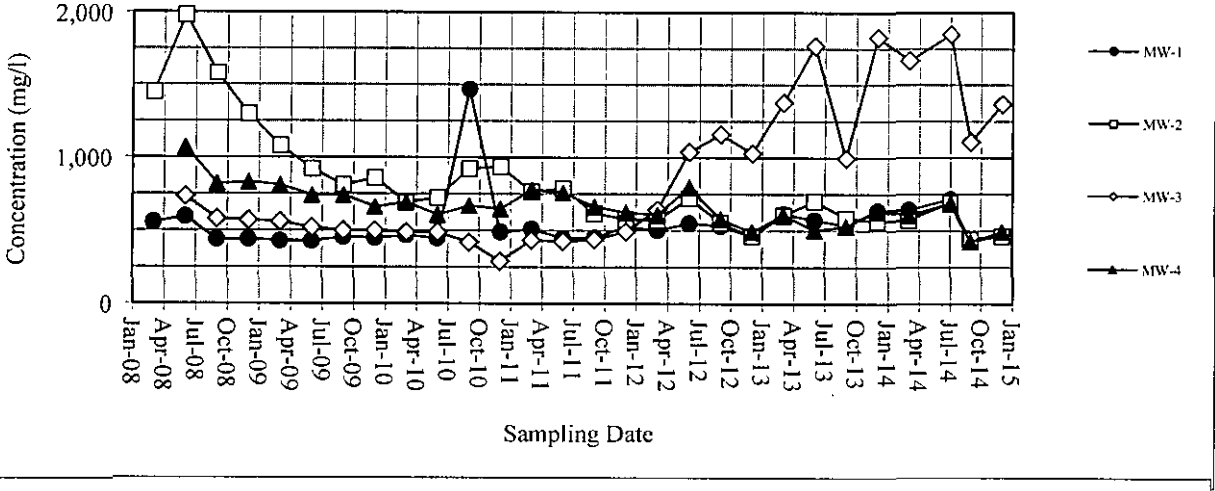
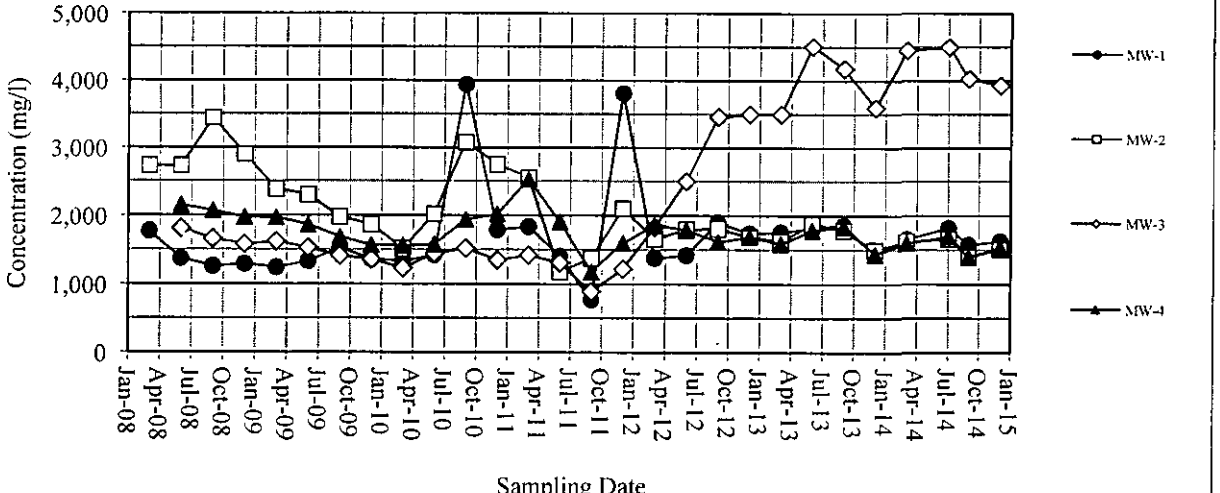
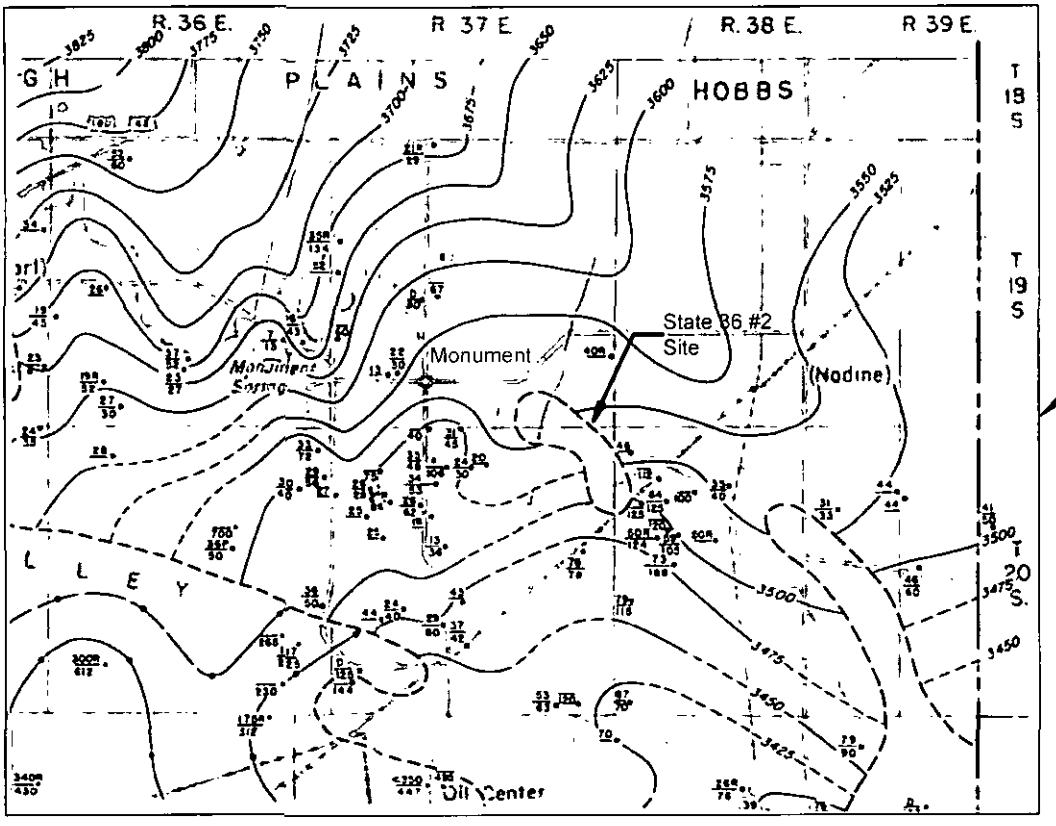
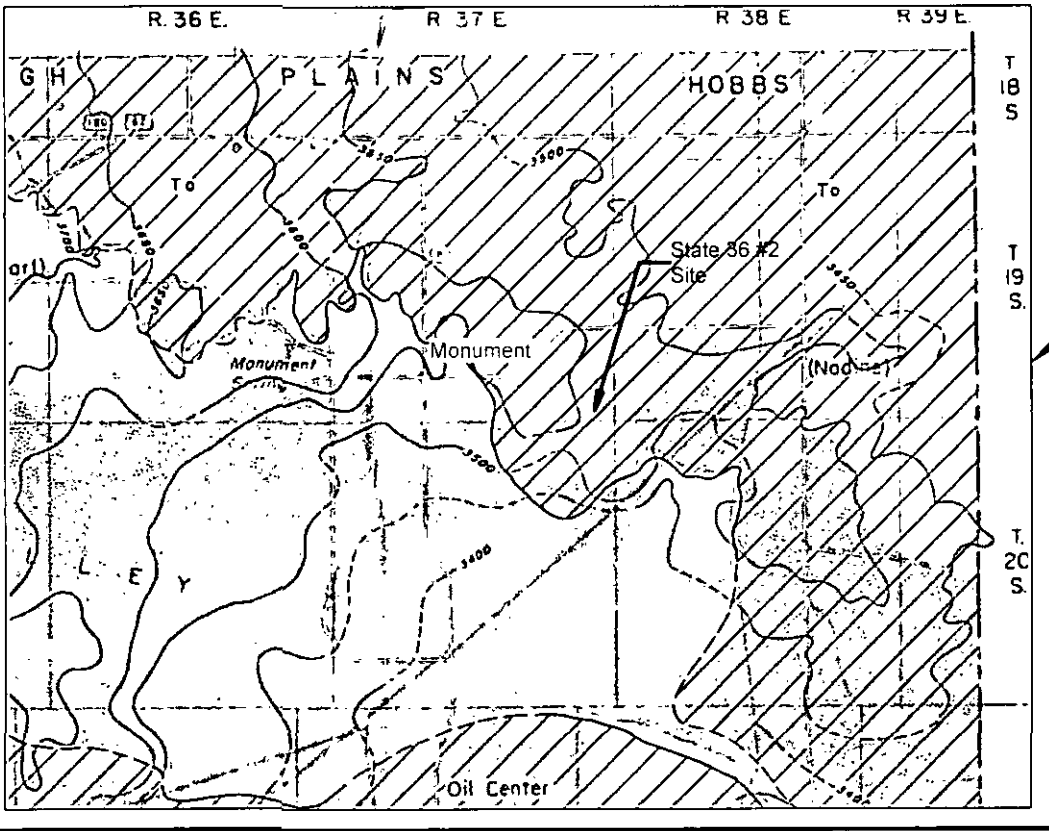


Figure 4: TDS Concentrations vs Time





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

TRIDENT ENVIRONMENTAL

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

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

MW-1

4C26014-01 (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	**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)

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	**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)

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	**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	

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: 4/9/2014

Brent Barron, Laboratory Director/Technical Director

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
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
4C26014															
-01	MW-1	G	1	X								X		3/24/14	1530
-02	MW-2	G	1	X								X		3/24/14	1815
-03	MW-3	G	1	X								X		3/24/14	1600
-04	MW-4	G	1	X								X		3/24/14	1715

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, SO4, CO3, HCO3)	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: 3/26/14 Time: 11:55
Received by: Date: Time:

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

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

Sample Condition: Cool: Yes / Intact: Yes — CHECKED BY: (Initials)

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

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: 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
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	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)

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	**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: Brent Barron 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-[illegible]4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name:	BILL TO Company:	PO#
Trident Environmental	Pride Energy Company / Attention: Matt Pride	
Project Manager:	**Address:** (Street, City, Zip)	
Gil Van Deventer / Trident Environmental	PO Box 710950, Tulsa, OK 74170-1950	
Address: (Street, City, Zip)	**Phone#:**	**Fax#:**
PO Box 12177, Odessa TX 79768	(918) 524-9200	(918) 524-9292
Phone #:	**Fax #:**	
(432) 638-8740	(413) 403-9968	
Project #:	**Project Name:**	
State 36 #2	Pride Energy Company	
Project Location:	**Sampler Signature:**	
T19S-R37E, Sec 36, Unit Letter O ~ Lea County, NM		

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
460700[illegible]	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, SO4, CO3, HCO3)	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:

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

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

Sample Condition 3ONCF — Cool: Yes ✓ / No; Intact: Yes ✓ / No
CHECKED BY: (Initials) BB

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

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: State 36 #2

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

Lab Order Number: 4J02017

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	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

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	

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			

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: 10/10/2014

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 # 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
-01	MW-1	G	1	X								X		9/27/14	1000
-02	MW-2	G	1	X								X		9/27/14	1030
-03	MW-3	G	1	X								X		9/27/14	1130
-04	MW-4	G	1	X								X		9/27/14	1100

LAB #	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																X	X		
-02																X	X		
-03																X	X		
-04																X	X		

Relinquished by:	Date: 10/2/14	Time: 12:50	Received by:	Date: Time:
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

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

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:

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
-01	MW-1	G	1	X								X		12-12-14	1530
-02	MW-2	G	1	X								X		12-12-14	1545
-03	MW-3	G	1	X								X		12-12-14	1620
-04	MW-4	G	1	X								X		12-12-14	1645

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, SO4, CO3, HCO3)	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: Time: 12/15/14 1540

Received by: Date: Time:

Relinquished by: Date: Time:

Received By: (Laboratory Staff) 12/15/14 1540 Date: Time:

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

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

CHECKED BY: (Initials)

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