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**STAGE 2
WORKPLAN**

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Stage 2 Abatement Plan

Pride Energy

State QE 13 #1

API # 30-025-29634

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104

December 19, 2008

Stage 2 Abatement Plan

Pride Energy

State QE 13 #1

API # 30-025-29634

prepared for:

Pride Energy Company

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1 Summary

1. Tenneco Oil Company (Tenneco) drilled State QE 13 #1 at this location in 1986.
2. In 2005, Pride Energy constructed a drilling pit for State QE 13 #1 at the same location as the 1986 drilling pit.
3. Evidence collected to date permits a conclusion that the horizontal extent of ground water impairment (chloride concentrations greater than 250 mg/L) is restricted to the area of the production pad.
4. Evidence collected to date permit a conclusion that the vertical extent of ground water impairment (chloride concentrations greater than 250 mg/L) near MW-01 is restricted to the ground water zone above a depth of 51 feet below grade.
5. The magnitude and extent of brine impact is consistent with a release from the 1986 drilling pit of Tenneco and the 2004 drilling pit of Pride Energy.
6. After evaluation of the data from the proposed ground water monitoring program, we will recommend:
 - Allowing natural processes to restore ground water quality, or
 - Implementing a pump-and-use ground water restoration strategy.
7. The proposed drilling pit excavation closure is construction of an infiltration barrier to effectively abate the transport of salt from the vadose zone to ground water.
8. Regulated hydrocarbons are not present in ground water or the vadose zone.

2 Description of the Site

2.1 Location

The site is in T12S R34E Section 13 Unit Letter N (N 33° 16' 22.9", W 103° 27' 55.2", API # 30-025-29634). To access the site:

1. Drive west on Highway 380 about ten miles from the intersection of Highway 380 and Highway 206 in Tatum, New Mexico
2. Proceed south about 1.5 miles on the dirt access road and turn east at the road intersection
3. Drive west about 0.6 miles and turn north onto the access road to the well
4. The site is at the end of the access road.

2.4 Site History – Table 1 and Plate 2

Table 1 Site History

| Date | Description |
|-------------------|--|
| April, 1986 | Well spudded by Tenneco |
| August 4, 1986 | Tenneco submits well completion details to OCD |
| Unknown | No closure or plugging details on OCD web site |
| March 2004 | Pride submits C-102 |
| May 2004 | Pride submits C-101 Application to Permit to Drill |
| June 23, 2005 | Pride submits C-105 Well Completion Report |
| August 29, 2007 | Submit C-144 |
| December 12, 2007 | Revised C-144 submitted by Elke Environmental to NMOCD |
| February 12, 2008 | NMOCD requires submission of Abatement Plan |
| April 14, 2008 | Stage 1 Abatement Plan submitted by R.T. Hicks Consultants to NMOCD |
| May 09, 2008 | Soil boring program to define vertical and horizontal extent of any impairment to ground water |
| June 19, 2008 | Sampling and monitoring event |
| August 9, 2008 | Sampling and monitoring event |
| December, 2008 | Stage 2 Abatement Plan submitted by R.T. Hicks Consultants to NMOCD |

Our examination of historic aerial photographs show that the drilling pit used by Pride Energy was located at the same location as the drilling pit used for the drilling of the original well in 1986 by Tenneco Oil Company. Plate 2 is a 1986 aerial photo that shows the 1986 drilling pit with the configuration of the 2005 Pride Energy drilling activities superimposed.

3 May 2008 Deep Sampling Program – Field Protocols and Modification of the Stage 1 Abatement Plan

On May 6, 2008, Hicks Consultants mobilized to the site to perform soil boring activities. Hicks Consultants selected Atkins Engineering (Atkins), from Roswell, NM, as the drilling contractor. Using a Foremost Mobile 58 drilling rig and a 7 ¼- inch O.D. hollow stem auger, we installed 5 soil borings at the site.

After examination of historic air photos and a close examination of the site, we modified the location of one of the three soil borings shown in Plate 6 of the Stage 1 Abatement Plan; we drilled two additional borings not shown on Plate 6 of the Stage 1 Abatement Plan. We elected to drill the first boring adjacent to the existing MW-01. A second and third boring was drilled as proposed in the Stage 1 Abatement Plan, cross-gradient and down gradient

Plates 1 and 2 of the Stage 1 Abatement Plan¹ show the general area and access to the site.

2.2 Site Map – Plate 1

As of May 13, 2008, current environs at the site include:

- an operational gas well
- an open drilling pit excavation
- five soil borings within the excavation
- five soil borings on the drilling pad
- two monitoring wells.

Plate 1 is a site map showing these features plotted on a 2005 aerial photograph that also shows the location of the Pride Energy drilling pit.

2.3 Field Program May-July, 2008

On May 6, 2008, R.T. Hicks Consultants (Hicks Consultants) performed a soil boring program at the State QE 13 #1 site. The purpose of the soil boring program was to delineate the vertical and horizontal extent of ground water impairment caused by the former drilling pit as discussed in our Stage 1 Abatement Plan.

We have performed two quarterly ground water monitoring and sampling activities at the site since the boring program.

Our findings during the soil boring program and ground water monitoring activities are discussed below; followed by proposed recommendations.

¹ Pride Energy Company – State QE 13 #1 Site Stage 1 Abatement Plan (AP-80), RT Hicks Consultants, April 14th, 2008.

(southeast), respectively, of the existing MW-01. The depth discrete ground water specific conductivity readings from the third boring obviated the need to drill an additional down gradient boring. The relatively high field conductance of ground water samples at the third boring was surprising because the release from the drilling pit was relatively recent. The fourth boring is about 110 feet down gradient from the edge of the drilling pit. The fifth boring is adjacent to MW-01 and out of the deadman zone, allowing us to complete it as a deep monitoring well, relative to MW-01.

At each boring location, we:

1. Created a borehole log.
2. Measured specific conductance (SC) of ground water collected through the auger using a trip bailer. SC was measured using a Hanna Combo pH & EC meter (Model No. HI 98130). We used the SC measurements to determine the:
 - a. vertical and horizontal extent of any ground water impairment, and
 - b. location of additional boreholes.
3. When conditions allowed, we obtained ground water samples through the auger for laboratory analysis for SC, chloride, and total dissolved solids (TDS) to correlated field measurements with laboratory measurements. We submitted the ground water samples to Hall Environmental Laboratories in Albuquerque, NM. Laboratory Certificates of Analysis are in Appendix A.

We completed soil boring number 5 as a monitoring well outside of the deadman (well anchor) zone. The Association of Energy Service Companies (AESC) recommended safe procedures and guidelines for oil and gas well servicing² states "During operations, all wireline units, other vehicles, or portable houses and equipment should be placed outside the guylines of the well service unit and outside the fall zone (lane) of the derrick". The standpipe for a monitoring well would create a hazard during well servicing if placed within the deadman zone.

Because ground water analysis of samples from the existing MW-1 did not detect regulated hydrocarbons and deep soil samples from within the former pit did not detect TPH, we did not collect samples from the auger borings for analysis of regulated hydrocarbons.

4 Results of Deep Sampling Program

4.1 Soil Boring SB-01 – Plate 3

SB-01 is located approximately 31-feet southeast from the southeast corner of the former drilling pit. The borehole log is shown on Plate 3.

Total depth of this borehole is 55-feet. The upper 23-feet consist of caliche. Twenty-three to 55-feet below ground surface (bgs) is composed of fine sand.

² Association of Energy Service Companies (AESC) Recommended Safe Procedures and Guidelines for Oil and Gas Well Servicing. Available: <http://www.aesc.net/Safety/index.cfm?action=view&pdfid=27> and <http://www.aesc.net/Safety/index.cfm>. Accessed July 3, 2008.

Ground water was encountered at 38.5-feet bgs. Field measurements indicate SC in ground water at the ground water table is 6.99 mS/cm.

We plugged the soil boring with cuttings and grout. Please see the borehole log for completion details.

Originally, SB-01 was to be completed as a deep monitoring well. However, the borehole was within the deadman zone. Therefore, we drilled SB-05 and completed the well as MW-01 Deep. SB-05 is discussed below.

4.2 Soil Boring SB-02 – Plate 4

SB-02 is located cross gradient approximately 65-feet east from the southeast corner of the former drilling pit. The borehole log is shown on Plate 4.

Total depth of this borehole is 47.5-feet. The upper 11-feet consist of caliche. Eleven to total depth is composed of fine sand with interbedded quartzite.

Ground water was encountered at 38.4-feet bgs. Ground water was encountered at 38.5-feet bgs. Field measurements indicate SC in ground water at the ground water table is 2.98 mS/cm.

We plugged the boring with cuttings and grout. Please see the borehole log for completion details.

4.3 Soil Boring SB-03 – Plate 5

SB-03 is located down gradient approximately 70-feet south southeast from the southeast corner of the former drilling pit. The borehole log is shown on Plate 5.

Total depth of this borehole is 63-feet. The upper 32-feet consist of caliche. Thirty-two to 62-feet is composed of fine sands and interbedded quartzite. From 62-feet to total depth is composed of hard quartzite.

Ground water was encountered at 43-feet bgs. We obtained field measurements at 43.6, 58, and 63-feet bgs. Field measurements indicate SC decreases with depth, from 4.0 mS/cm at 43.6-feet bgs to 2.4 mS/cm at 63-feet bgs. We obtained sufficient sample volume for laboratory analysis of ground water at 58-feet bgs. Field and laboratory analysis of ground water samples is shown in Table 2, below.

We plugged the boring with cuttings and grout. Please see the borehole log for completion details.

4.4 Soil Boring SB-04 – Plate 6

SB-04 is located down gradient approximately 116-feet southeast from the southeast corner of the former drilling pit. The borehole log is shown on Plate 6.

Total depth of this borehole is 55-feet. The upper 23-feet consist of caliche. Twenty-three to 55-feet is composed of fine sand.

Ground water was encountered at 38-feet bgs. We obtained field measurements at 53-feet bgs. Field measurements indicate SC 0.88 mS/cm at 53-feet bgs. We obtained sufficient

sample volume for laboratory analysis of ground water at 55-foot bgs. Field and laboratory analysis of ground water samples is shown in Table 2, below.

We plugged the boring with cuttings and grout. Please see the borehole log for completion details.

4.5 Soil Boring SB-05 – Plate 7

SB-05 is located down gradient approximately 35-feet east southeast from the southeast corner of the former drilling pit; adjacent to MW-01. The borehole log is shown on Plate 7.

Total depth of this borehole is 63-feet. The upper 17-feet consist of caliche. Seventeen to 63-feet is composed of fine sands and interbedded quartzite.

Ground water was encountered at 38-foot bgs. We obtained field measurements at 63-foot bgs. Combining field measurements at SB-01 and SB-05, measurements indicate SC decreases with depth, from 6.99 mS/cm at 38.55-foot bgs to 2.20 mS/cm at 63-foot bgs.

We completed SB-05 as monitoring well MW-01 Deep. Total depth of MW-01 Deep is 63-foot with 10-foot of screen from 53 to 63-foot bgs.

4.6 Analyses of Ground Water from Borings– Table 2 and Plate 8

Table 2 presents all of the data obtained during the boring program and Plate 8 shows the data in relation to the site.

Table 2: Analysis of ground water samples from soil boring program

| Boring ID | Depth (ft bgs) | Field Measured Values | Lab Analyzed Values | | |
|-----------|----------------|-----------------------|---------------------|-----------------|------------|
| | | SC (mS/cm) | SC (mS/cm) | Chloride (mg/L) | TDS (mg/L) |
| SB-01 | 38.55 | 6.99 | -- | -- | -- |
| SB-02 | 38.4 | 2.98 | -- | -- | -- |
| SB-03 | 43.6 | 4 | -- | -- | -- |
| | 58 | 3 | 1.9 | 430 | 1,500 |
| | 63 | 2.4 | -- | -- | -- |
| SB-04 | 55 | 0.88 | 0.89 | 67 | 720 |
| SB-05 | 63 | 2.2 | -- | -- | -- |

-- indicates insufficient sample volume for lab analysis

4.7 Ground Water Monitoring Well Sampling – Table 3, Plate 9 and Appendix A

On June 16 and 19 and September 9, 2008, Rozanne Johnson of Arc Environmental, the selected contractor for Hicks Consultants, mobilized to the site to perform well development of one newly-drilled well and sampling and monitoring of the newly installed well and the existing monitoring well.

Table 3, below, summarizes recent and historic ground water chemistry and ground water elevation measurements at MW-01 and MW-01 Deep. The Certificate of Analysis for the June 19th and September 9th sampling events are in Appendix A. The results of the sampling are also presented in Plate 9.

Table 3 - Monitoring Well Sampling Results

| Well Name | Date | GW Elev (ft msl) | DTW (ft) | Cl (mg/L) | TDS (mg/L) | Specific Conductance (field measured) (mS/cm) |
|------------|-----------|---------------------|-------------|--------------|---------------|---|
| MW-01 | 1/24/2008 | 4,097.45 | 38.5 | 1,490 | | |
| MW-01 | 3/13/2008 | 4,097.47 | 38.48 | 4,340 | 6,040 | 6.78 |
| MW-01 | 6/19/2008 | 4,097.36 | 35.59 | 1,760 | 3,310 | 5.62 |
| MW-01 | 9/9/2008 | 4,097.36 | 38.59 | 1,000 | 2,590 | 3.9 |
| MW-01 Deep | 6/19/2008 | 4,098.37 | 38.03 | 66.7 | 464 | 0.82 |
| MW-01 Deep | 9/9/2008 | 4,098.33 | 38.07 | 64 | 542 | 0.7 |

5 Discussion and Conclusions

5.1 Ground Water Flow is Southeast – Plate 10

Regional ground water data suggest a southeast ground water flow direction in much of the South Four Lakes area. Data from the gauging of the newly-installed monitor wells at the various sites in the area suggest a southeast direction of ground water flow at the State QE 13 #1 (Plate 10).

5.2 The Magnitude and Extent of Brine Impact is Consistent with a 2005 and 1986 Release

The lithologic data presented in Plates 3 through 7 shows that the upper portion of the aquifer is composed of fine sand.

A pump test conducted by Trident Environmental and R.T. Hicks Consultants in September 2008 at the South Four Lakes Tank Battery shows a hydraulic conductivity of 6 ft/day for the upper portion of the Ogallala aquifer. The wells at the tank battery represent the upper portion of the aquifer. A pump test was also conducted on a water well located approximately 1-mile north of the tank battery that is representative of the entire saturated thickness of the Ogallala aquifer. Pump test results show that the hydraulic conductivity across the entire aquifer is approximately 65-feet/day with a chloride concentration of 39 mg/L. According to Musharrafieh and Chudnoff³, the hydraulic conductivity of the Ogallala Aquifer in this area is 40-60 ft/day. Because the Ogallala Aquifer is coarser grained at the base of the unit, the much lower hydraulic conductivity in the upper portion of the aquifer relative to published data for the aquifer and the test of the fully-penetrating well is not surprising.

Plate 10 shows that the hydraulic gradient in the area of the site is approximately 0.002. Assuming a hydraulic conductivity of 6 ft/day, an assumed porosity of 0.3 and use of Darcy's equation, the average linear velocity of ground water at the site is approximately 15 feet/year.

³ Numerical Simulation of Groundwater Flow for Water Rights Administration in the Lea County Underground Water Basin New Mexico, New Mexico Office of the State Engineer, Technical Report 99-1, 1999

If we assume that the average linear velocity of ground water is 15 feet/year, a brine release in 1986 would migrate about 330 feet from the source. A brine release in 2005 would migrate only 45 feet. As shown in Table 4 (below), SB-01, SB-03 and possibly SB-04 will show impacts from a 1986 drilling pit release. SB-01 and possibly SB-03 will show impacts from a 2005 drilling pit release. SB-04 will show no signs of impact from the 2005 release but would show chloride concentrations higher than background due to brine transport after a 1986 release.

| | Distance from Drilling Pit (feet) | | |
|-------------------|-----------------------------------|-------|-------|
| | SB-01 | SB-03 | SB-04 |
| 1986 Drilling Pit | 65 | 103 | 151 |
| 2005 Drilling Pit | 34 | 72 | 117 |

Plate 11 shows our interpretation of the magnitude and extent of chloride from the Tenneco and Pride Energy drilling pits. Chloride isoconcentrations agree with specific conductance in ground water obtained during the May 2008 drilling activities (see Plate 8).

Furthermore, as shown in Figure 2, specific conductance in ground water during drilling activities decreases from 6.99 mS/cm to 0.88 mS/cm as the downgradient distance increases from the drilling pits.

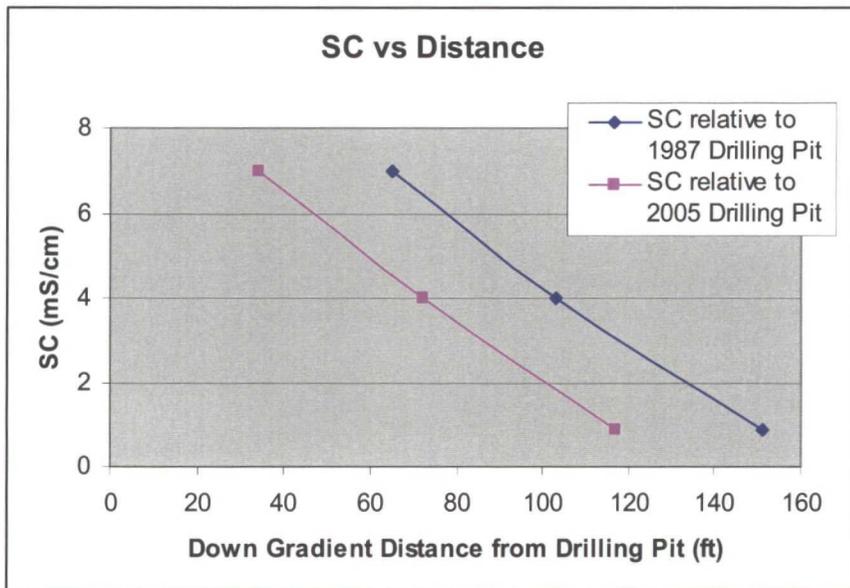


Figure 1: SC decreases with distance from drilling pits

We conclude that brine released from the 1986 and possibly the 2005 drilling pit have impaired ground water at MW-01. MW-01 Deep shows no impairment. Impairment of ground water quality at SB-03 is most likely from the 1987 drilling pit. SB-04 shows no signs of impairment but chloride may be background concentrations. Background chloride concentrations in nearby water wells range from 39 (OSE water well L3005) to 116 mg/L (MW-02 at the South Four Lakes Tank Battery).

5.3 Natural Dilution and Dispersion Will Effectively Abate the Ground Water Impairment

At this site, we believe the ground water flux is relatively low due to the small hydraulic gradient and fine-grained sediments that comprise the uppermost ground water zone. While this condition will minimize migration of the documented ground water impairment, natural restoration of ground water due to dilution and dispersion will require decades. Due to the location of the site, we believe it highly unlikely that the area of the production pad will be a site of ground water use in the foreseeable future. Therefore, rapid restoration of ground water quality is not warranted.

6 Stage II Abatement Plan

Data collected to date indicates impaired ground water exists beneath the site and chloride above 1,000 mg/kg exists in the vadose zone below the former drilling pit. The source of the chloride in the vadose zone is the Pride drilling pit and residual chloride from an earlier release from the Tenneco drilling pit (1986). The origin of the chloride detected in monitoring well MW-1, is probably leakage from the Tenneco and Pride drilling pits.

6.1 Ground Water Remedy

Although the impairment of ground water was probably caused by Tenneco, Pride Energy proposes to:

1. Conduct two additional quarterly ground water sampling events and evaluate the recovery of each well after sampling. These data should assist in creating a better estimate of the hydraulic conductivity of the uppermost saturated zone, the rate of natural ground water restoration and the rate of contaminant migration.
2. Evaluate the ground water monitoring and sampling data and in April 2009 provide an annual report to NMOCD that evaluates the data and recommends:
 - i. Allowing natural processes to abate the ground water impairment, or
 - ii. Implementing a pump-and-use ground water restoration strategy.

6.2 Vadose Zone Remedy

1. Expand the existing drilling pit excavation as necessary to create a 3-foot wide area where subsurface impact of pit leakage does not exist (Plate 12, step 1).
2. Use the material from the pit expansion or deepen the excavation as necessary to create a mounded surface that slopes away from the center on the bottom of the excavation as suggested in Plate 12, step 2.
3. Over the mounded sloping surface, place "shingles" of recycled or new 20-mil, reinforced liner material that meet NMOCD specifications. The shingles are laid to shed any infiltrated water from the pit area to native soil and to prevent any upward migration of chloride into the root zone.
4. Backfill the excavation with clean material, beginning with caliche and/or sand and finishing the top of the backfill with about 6-inches of soil that is capable of supporting native vegetation.

5. The new grade is a 3-5% slope that drains to a "ponding area". The final grade of the surface over the former pit should blend with the surroundings as much as possible. Plate 12, step 3, which shows a 5% slope that resembles a large "pitchers mound", is one example of a final surface that allows for drainage of stormwater away from the former drilling pit.
6. Seed the reclaimed pit with a mixture approved by the State Land Office.

6.3 Schedule of Activities

We will perform two additional ground water monitoring and sampling events at MW-1 and MW-01 Deep to complete a full year of quarterly monitoring at the site. We will analyze the ground water for the following:

- Major Anions/Cations
- TDS
- BTEX

Upon OCD approval of the Abatement Plan, Pride will commence the vadose zone remedy. Upon completion of the approved vadose zone remedy and proposed ground water sampling, Pride Energy will submit an annual report that evaluates data and proposes a path forward for addressing ground water at the site as discussed in Section 6.1.

Plates

R.T. Hicks Consultants, Ltd.

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Explanation

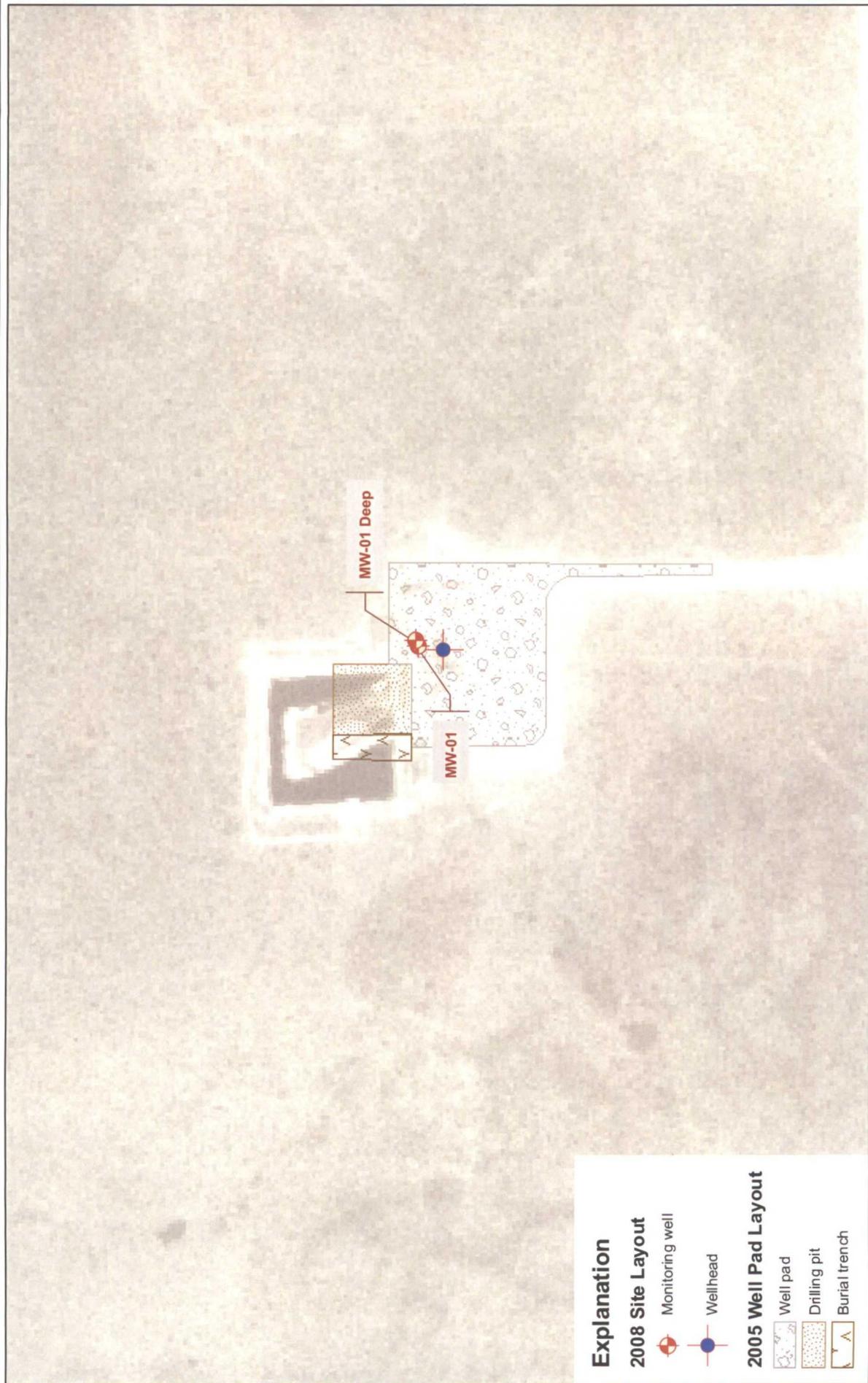
- Wellhead
- Deadman
- Monitoring well
- Soil boring/Monitoring Well (May 2008)
- Soil boring (May 2008)
- Soil Boring, Elke Environmental
- Well pad
- Drilling pit
- Burial trench



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Plate 1
 October 2008

Site Map
 Pride Energy: State QE 13 #1



Explanation

2008 Site Layout

Monitoring well



Wellhead



2005 Well Pad Layout

Well pad

Drilling pit

Burial trench



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2005 Well Pad Layout Overlaid on a
 1986 Aerial Photograph (USGS)

Pride Energy: State QE 13 #1

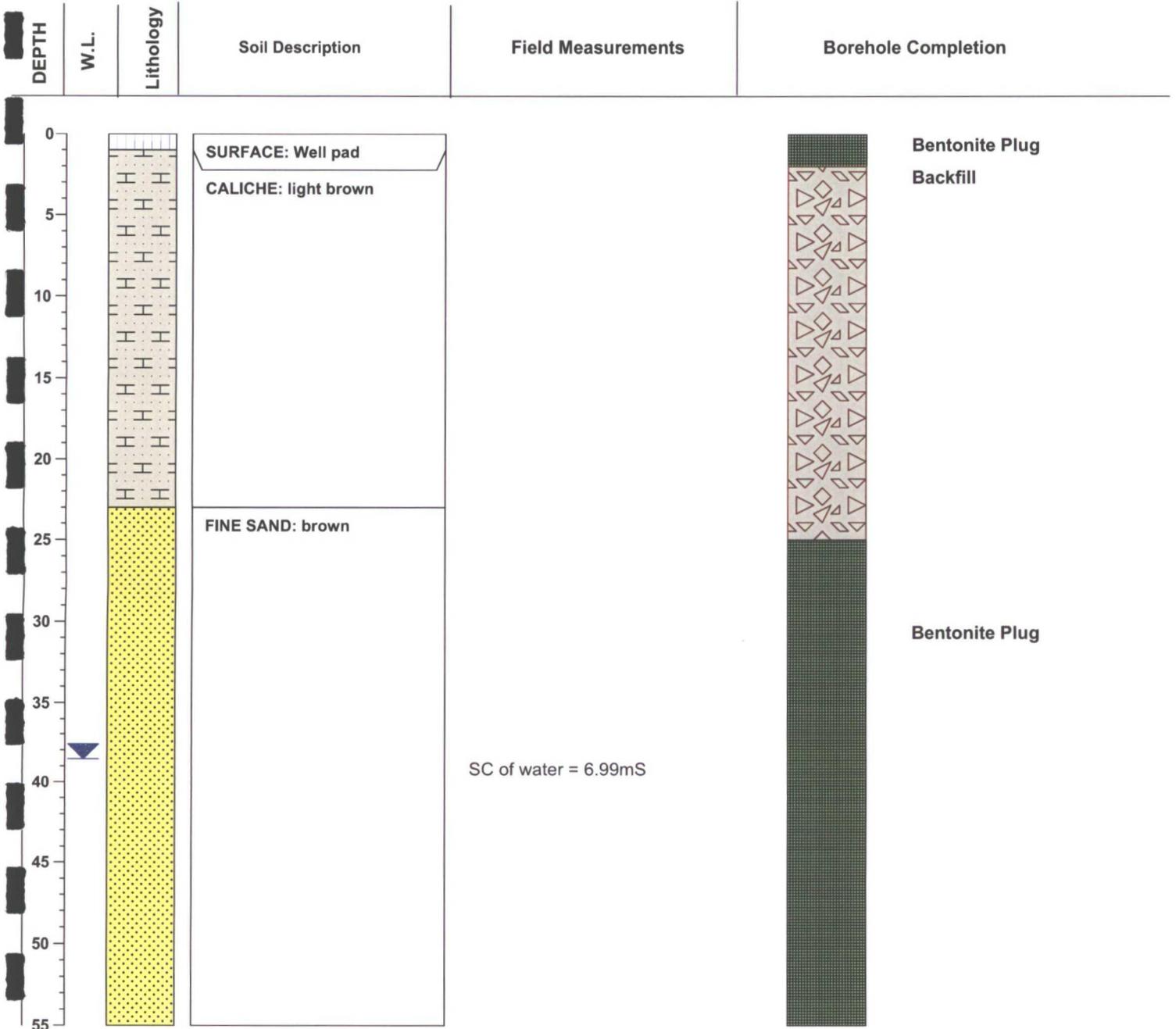
Plate 2

October 2008

Borehole/Well Log

Site Name: State QE 13 #1
 Address: 8.6 miles west on Hwy 380
 City, State: Tatum, NM
 County: Lea
 Driller: Atkins Engineering
 Auger Type: Hollow Stem
 Auger Dia.: 7.25
 Drill Date: 05/06/2008

Coordinate System: UTM Zone 13 (meters)
 X: 642841.56
 Y: 3682644.45
 Z:
 Datum: NAD 83
 Borehole ID: SB-01
 Well ID:
 Total Depth: 55



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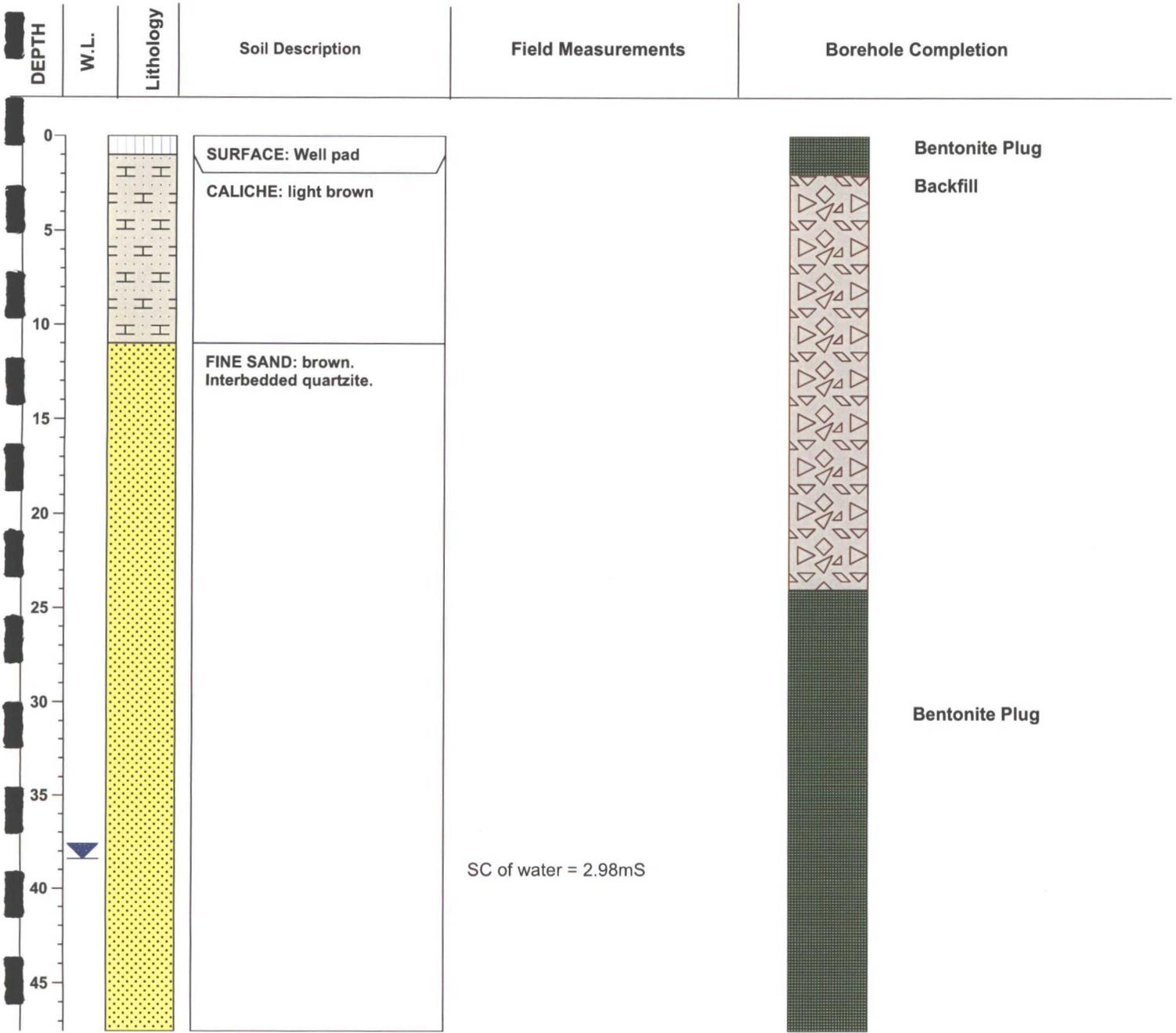
Plate 3

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Borehole/Well Log

Site Name: State QE 13 #1
 Address: 8.6 miles west on Hwy 380
 City, State: Tatum, NM
 County: Lea
 Driller: Atkins Engineering
 Auger Type: Hollow Stem
 Auger Dia.: 7.25
 Drill Date: 05/06/2008

Coordinate System: UTM Zone 13 (meters)
 X: 642850.295
 Y: 3682652.784
 Z:
 Datum: NAD 83
 Borehole ID: SB-02
 Well ID:
 Total Depth: 47.5



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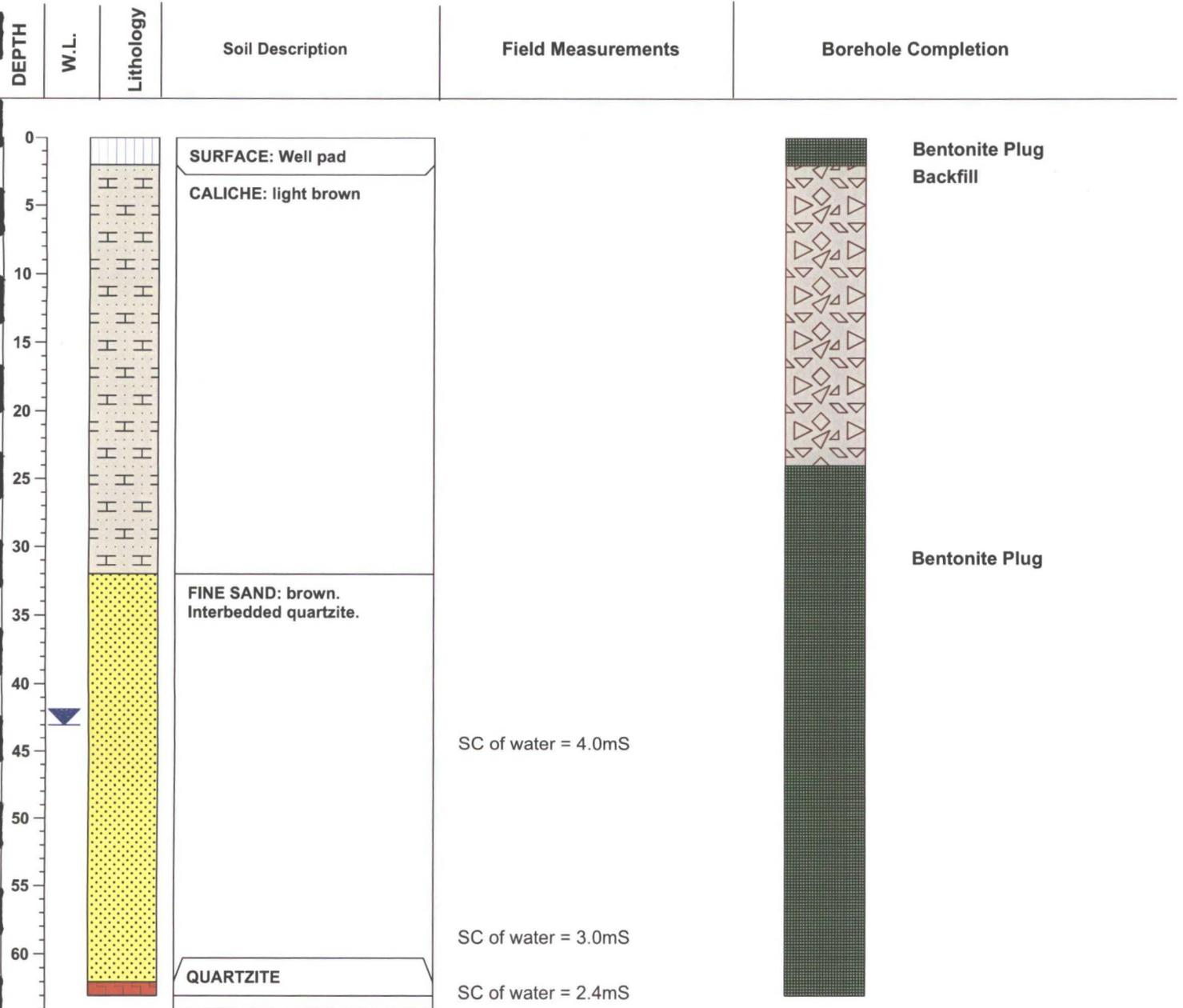
Plate 4

Page 1 of 1

Borehole/Well Log

Site Name: State QE 13 #1
 Address: 8.6 miles west on Hwy 380
 City, State: Tatum, NM
 County: Lea
 Driller: Atkins Engineering
 Auger Type: Hollow Stem
 Auger Dia.: 7.25
 Drill Date: 05/06/2008

Coordinate System: UTM Zone 13 (meters)
 X: 642844.739
 Y: 3682636.512
 Z:
 Datum: NAD 83
 Borehole ID: SB-03
 Well ID:
 Total Depth: 63



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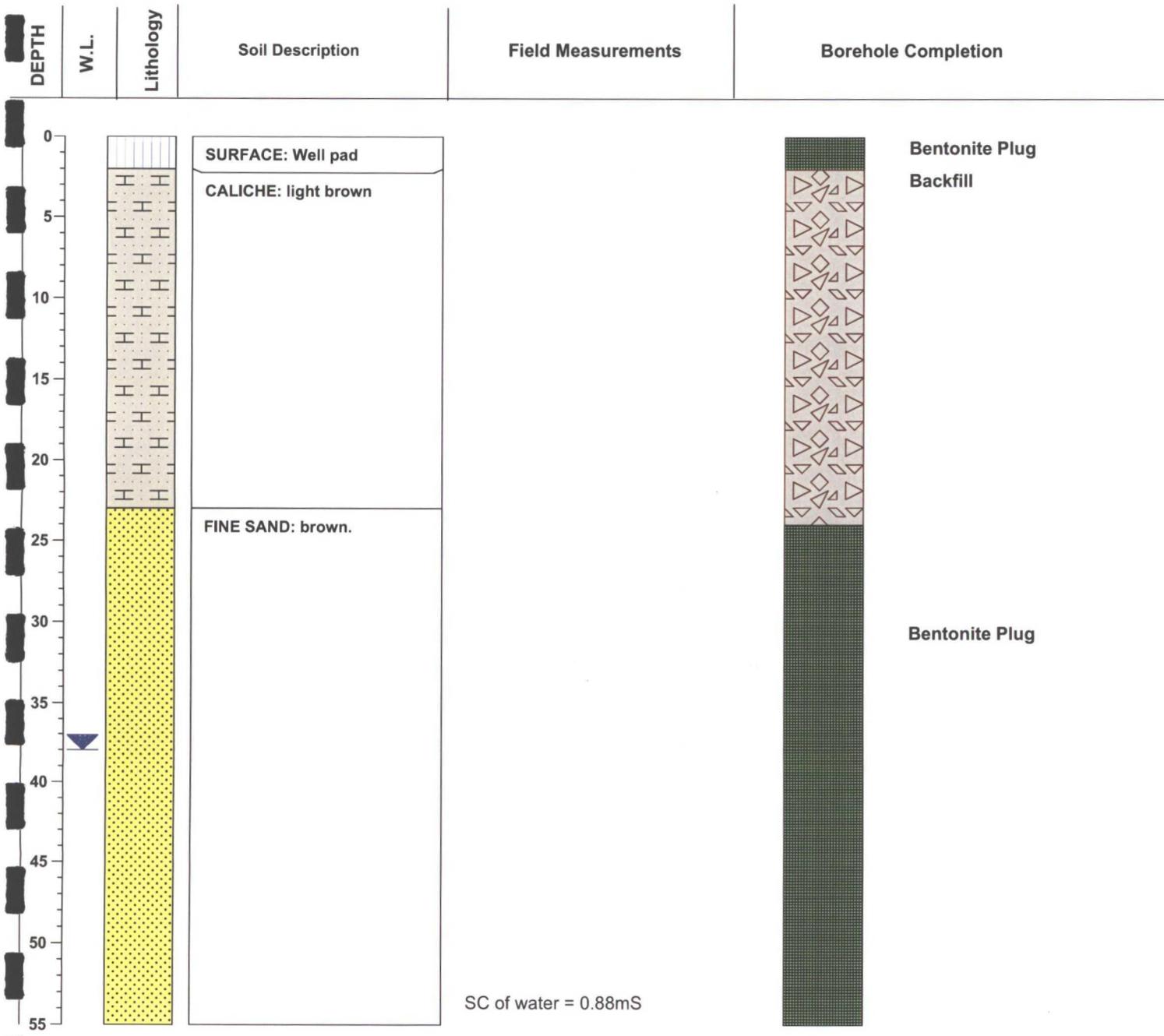
Plate 5

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Borehole/Well Log

Site Name: State QE 13 #1
 Address: 8.6 miles west on Hwy 380
 City, State: Tatum, NM
 County: Lea
 Driller: Atkins Engineering
 Auger Type: Hollow Stem
 Auger Dia.: 7.25
 Drill Date: 05/06/2008

Coordinate System: UTM Zone 13 (meters)
 X: 642851.09
 Y: 3682622.25
 Z:
 Datum: NAD 83
 Borehole ID: SB-04
 Well ID:
 Total Depth: 55



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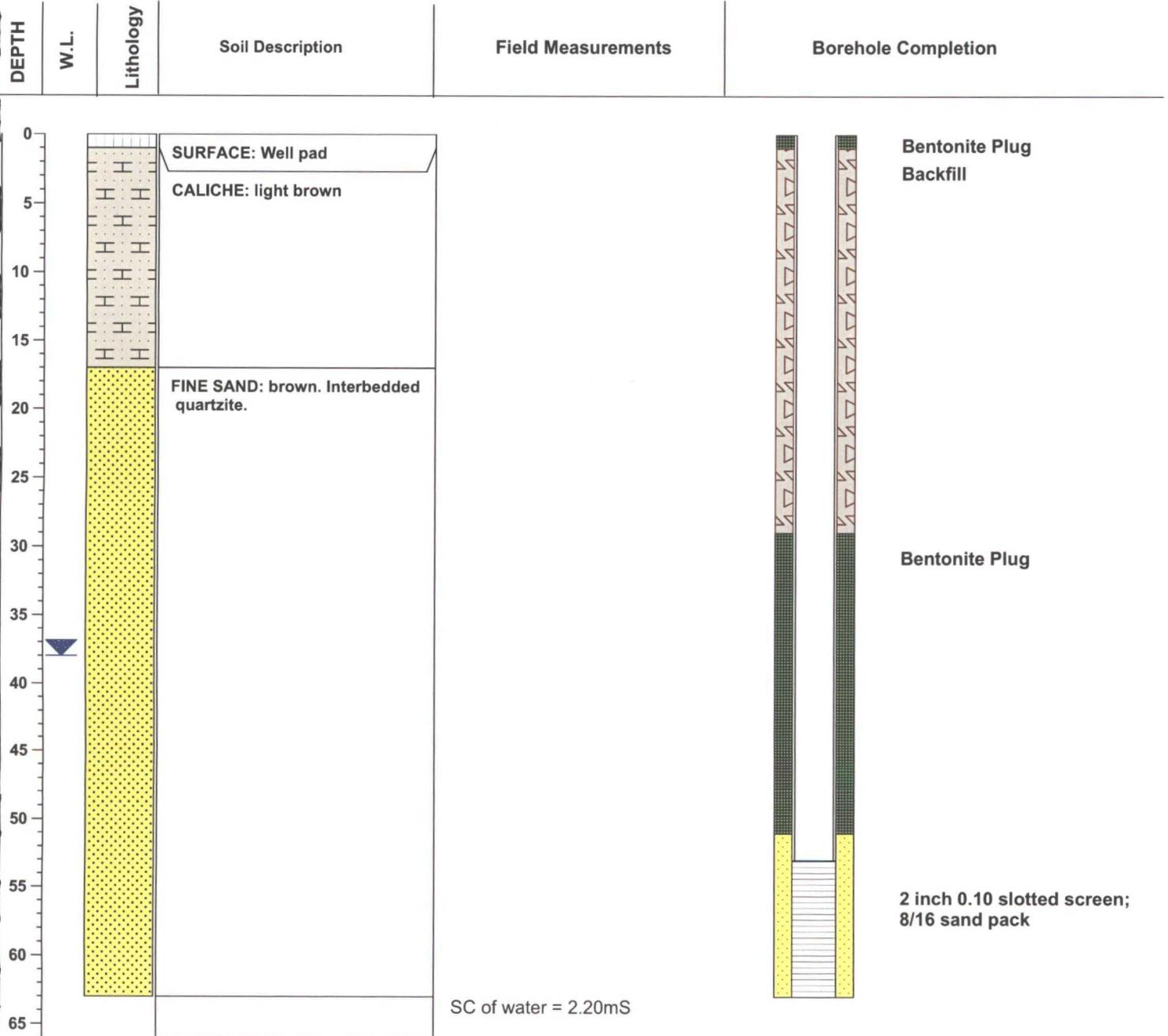
Plate 6

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Borehole/Well Log

Site Name: State QE 13 #1
 Address: 8.6 miles west on Hwy 380
 City, State: Tatum, NM
 County: Lea
 Driller: Atkins Engineering
 Auger Type: Hollow Stem
 Auger Dia.: 7.25
 Drill Date: 05/07/08

Coordinate System: UTM Zone 13 (meters)
 X: 642847.12
 Y: 3682646.04
 Z:
 Datum: NAD 83
 Borehole ID: SB-05
 Well ID: MW-01 Deep
 Total Depth: 63

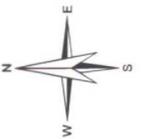
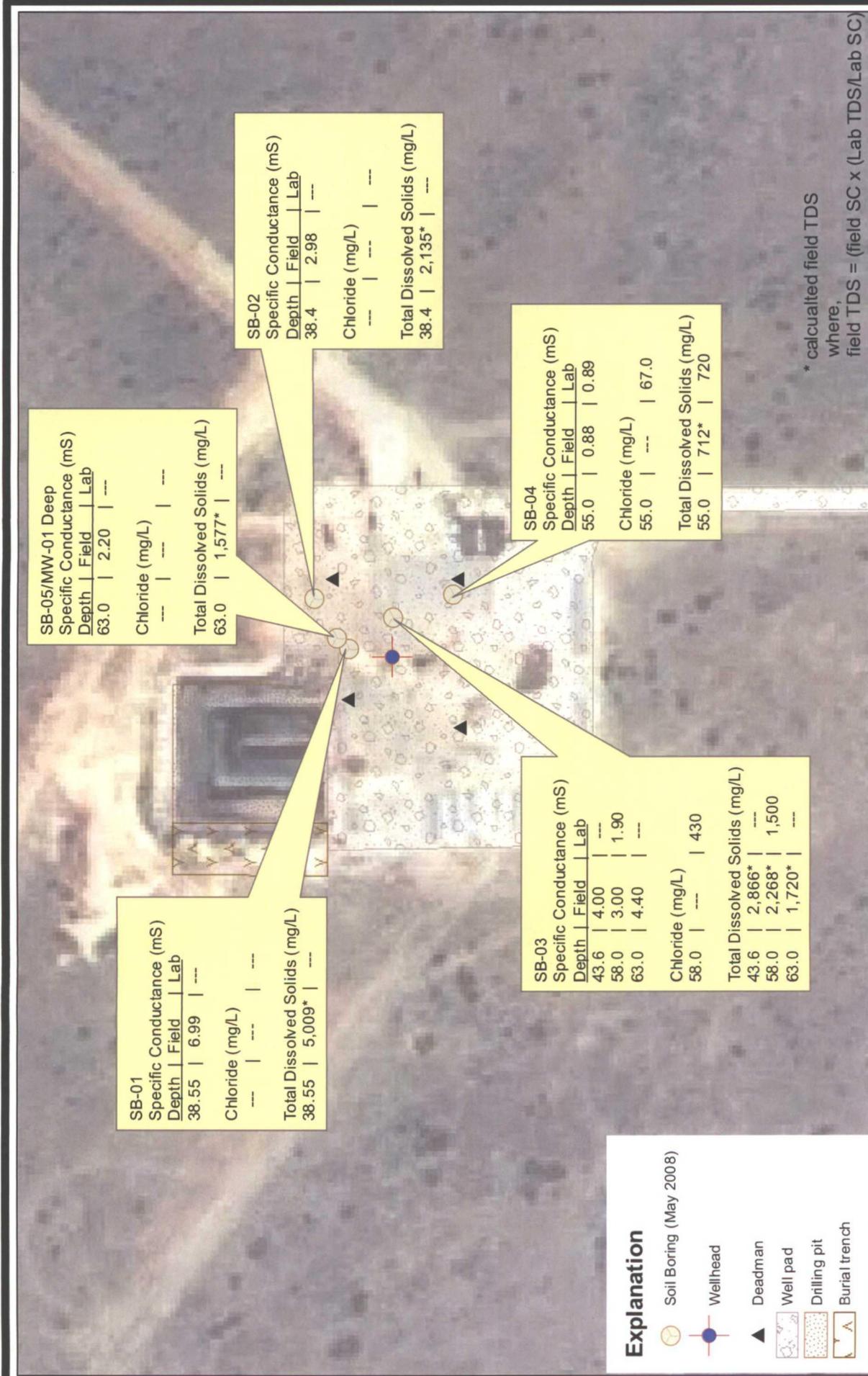


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Plate 7

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Chemistry of Ground Water During
 Soil Boring Activities
 Pride Energy: State QE 13 #1

Plate 8
 October 2008



MW-01
 GW Elev: 4097.36
 Cl: 1000
 TDS: 2590

MW-01 Deep
 GW Elev: 4098.33
 Cl: 64
 TDS: 542

Explanation

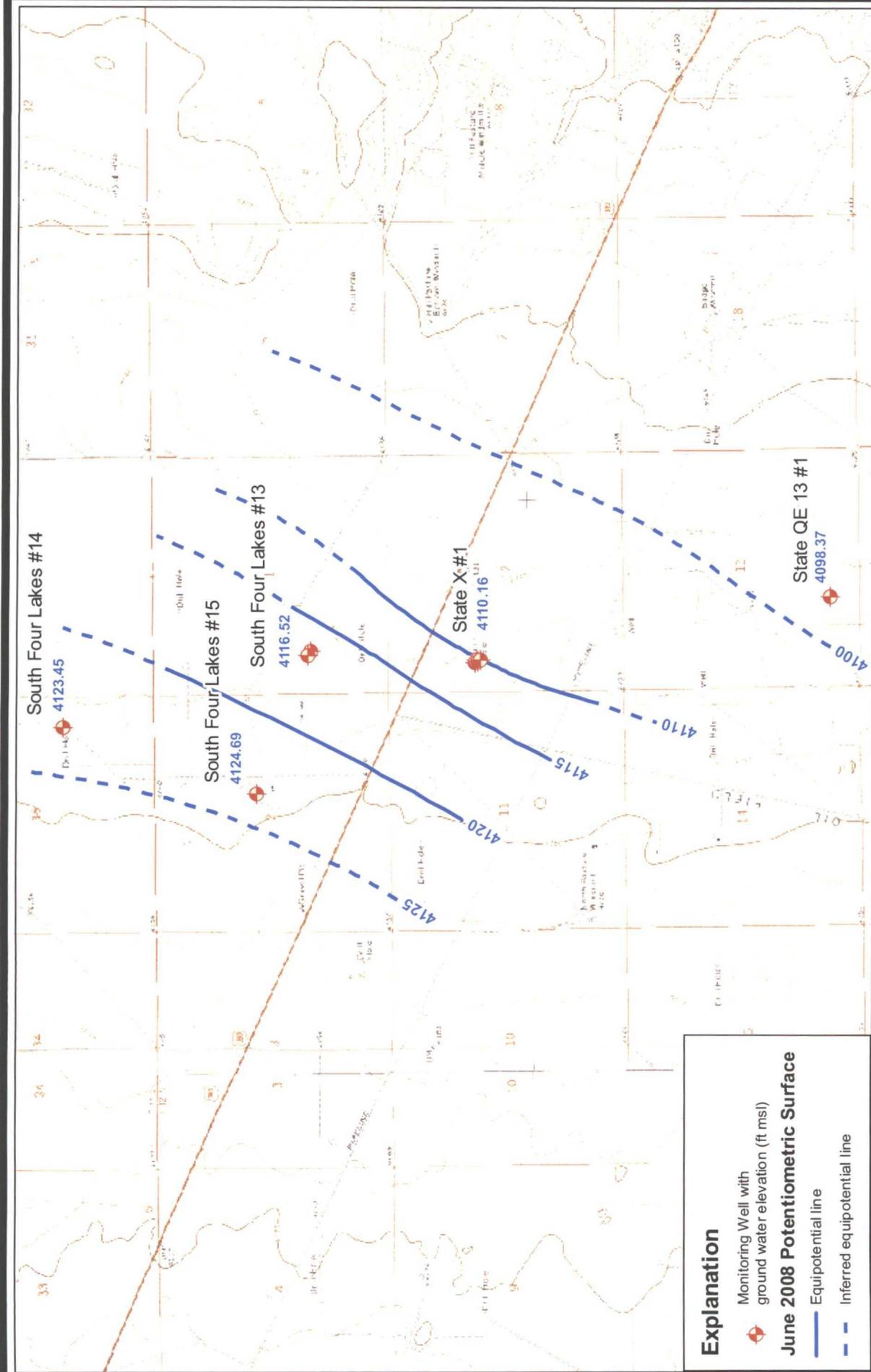
- Monitoring well with ground water chemistry (mg/L)
- Wellhead
- Deadman
- Well pad
- Drilling pit
- Burial trench

Note: Ground water elevations approximate; casing elevations not surveyed.



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 901 Rio Grande Blvd NW Suite F-142
 Albuquerque, NM 87104
 Ph: 505.266.5004

| | |
|--|--------------|
| Chloride and TDS in Ground Water (Sept 09, 2008) | Plate 9 |
| Pride Energy: State QE 13 #1 | October 2008 |



Explanation

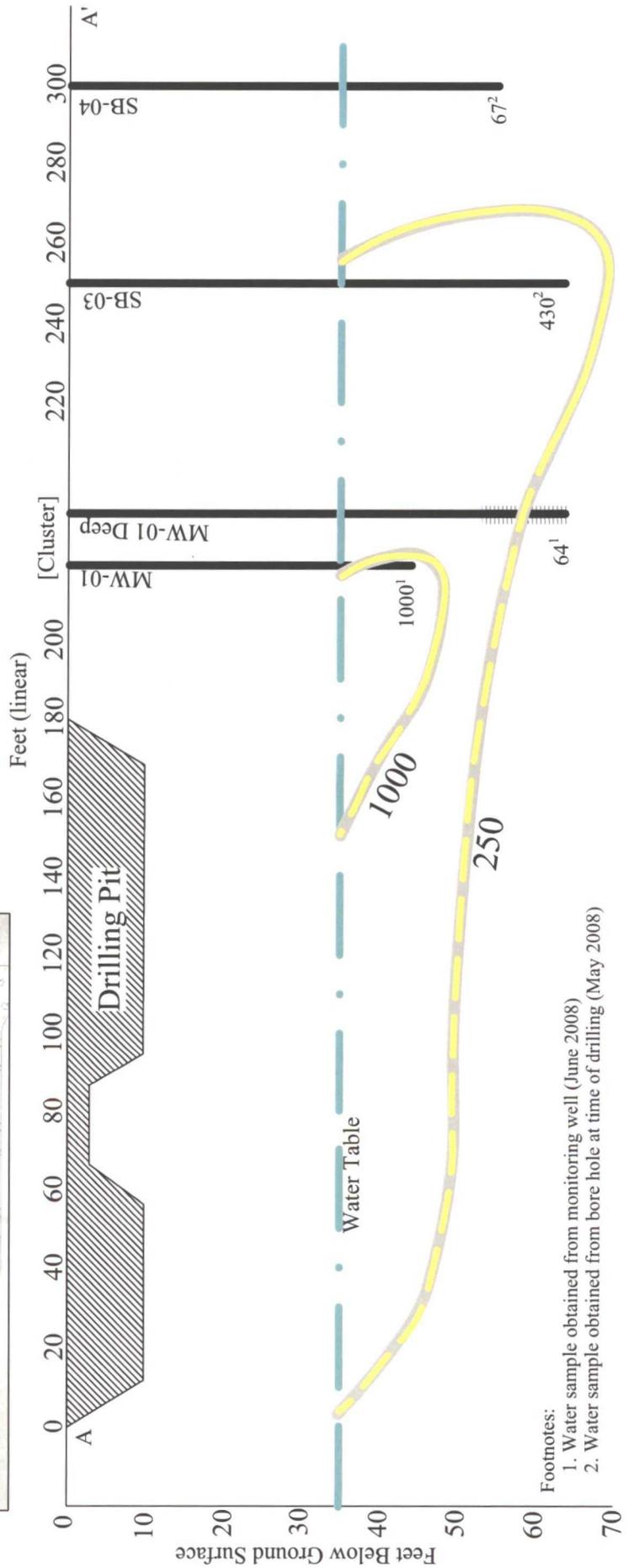
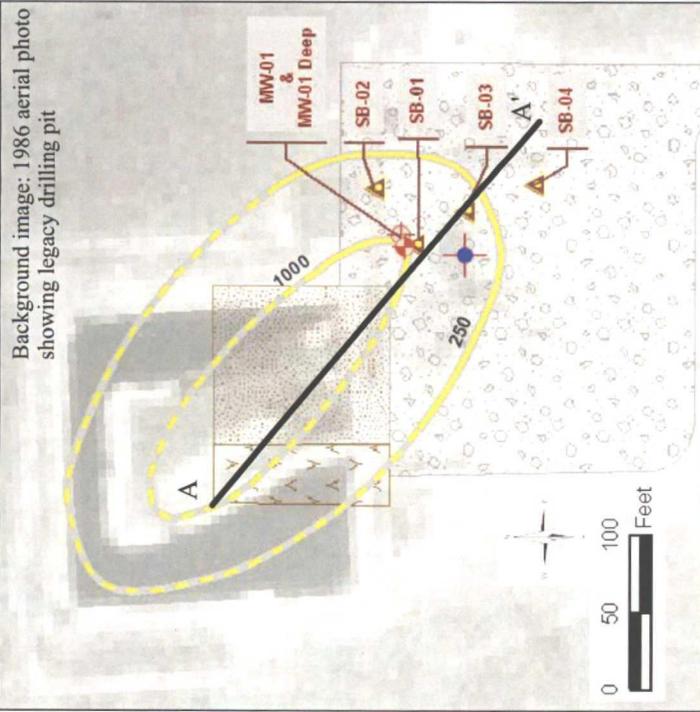
- Monitoring Well with ground water elevation (ft msl)
- June 2008 Potentiometric Surface**
- Equipotential line
- Inferred equipotential line

0 1,500 3,000 Feet

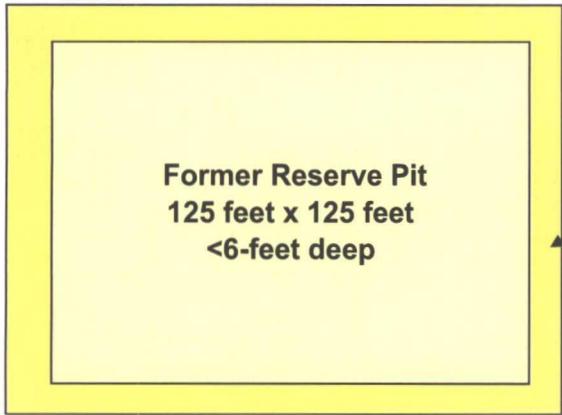
| | | |
|---|---|--|
| <p>R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004</p> | <p>Potentiometric Surface (June 2008)</p> | <p>Plate 10 Pride Energy: State QE 13 #1 August 2008</p> |
|---|---|--|

Chloride concentration (mg/L) in
 ground water

| Explanation | |
|-------------|---|
| | Monitoring well |
| | Soil boring/Monitoring Well (May 2008) |
| | Soil boring (May 2008) |
| | Wellhead |
| | Chloride concentration (mg/L) |
| | Chloride concentration (mg/L), interred |
| | Well pad |
| | Drilling pit |
| | Burial trench |



Footnotes:
 1. Water sample obtained from monitoring well (June 2008)
 2. Water sample obtained from bore hole at time of drilling (May 2008)

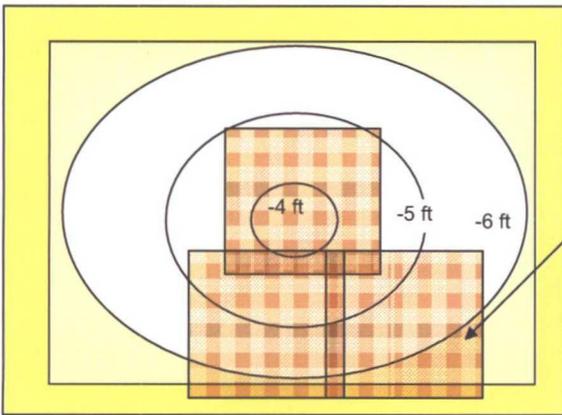


**Former Reserve Pit
125 feet x 125 feet
<6-feet deep**

Step 1

Excavate as required to create 3-foot clean zone around chloride impact

Reserve all topsoil and clean caliche



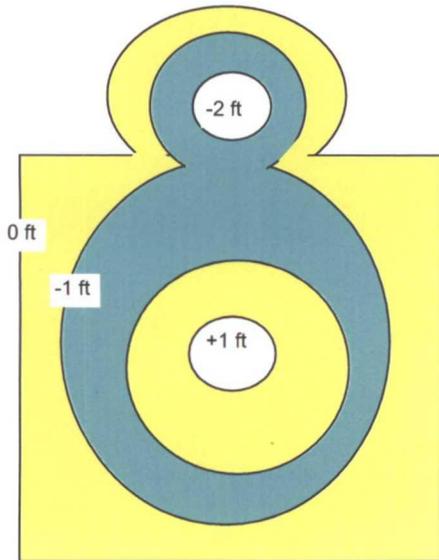
Step 2

Create sloping surface at bottom of excavation

Center of sloping surface should be 3 to 4 feet below grade

Place 20-mil liner "shingles" over prepared surface

Shingles drain to un-impacted caliche



Step 3

Excavate ponding area(s)

Backfill excavation with clean caliche and sand over liner - retain slope

Place about 6-inches of topsoil over clean caliche/sand - retain slope

Grade to allow excess runoff to ponding area

Re-seed with native species or a mix acceptable by the State Land Office

R.T. Hicks Consultants, Ltd

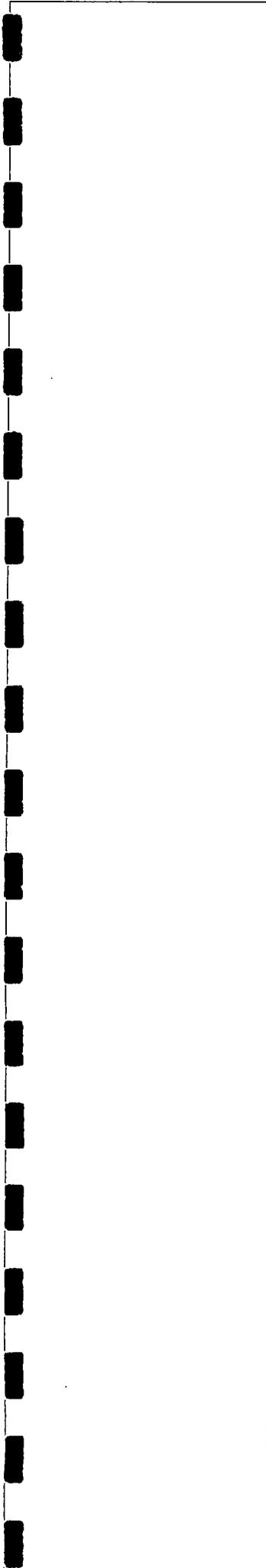
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Pride Energy

Reserve Pit Excavation Closure

Plate 12

November 2008



Appendix A

Laboratory Analytical

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104

Analytical Report 299688

for

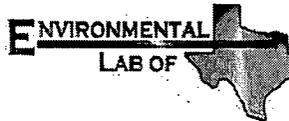
R.T. Hicks Consultants, LTD

Project Manager: Randy Hicks

Pride Energy Company

State QE 13 #1

20-MAR-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta



20-MAR-08

Project Manager: **Randy Hicks**
R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104

Reference: XENCO Report No: **299688**
Pride Energy Company
Project Address: T12S-R34E, Section 1, Unit Letter L

Randy Hicks:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 299688. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 299688 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 299688



R.T. Hicks Consultants, LTD, Albuquerque, NM

Pride Energy Company

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------|--------------|---------------|
| MW-1 | W | Mar-13-08 12:35 | | 299688-001 |



Certificate of Analysis Summary 299688

R.T. Hicks Consultants, LTD, Albuquerque, NM

Project Name: Pride Energy Company

Project Id: State QE 13 #1

Date Received in Lab: Mar-14-08 05:16 pm

Contact: Randy Hicks

Report Date: 20-MAR-08

Project Location: T12S-R34E, Section 1, Unit Letter L

Project Manager: Brent Barron, II

| | | | | | |
|--------------------------------------|-------------------|-----------------|--|--|--|
| Analysis Requested | <i>Lab Id:</i> | 299688-001 | | | |
| | <i>Field Id:</i> | MW-1 | | | |
| | <i>Depth:</i> | | | | |
| | <i>Matrix:</i> | WATER | | | |
| | <i>Sampled:</i> | Mar-13-08 12:35 | | | |
| Anions by EPA 300/300.1 | <i>Extracted:</i> | | | | |
| | <i>Analyzed:</i> | Mar-15-08 10:29 | | | |
| | <i>Units/RL:</i> | mg/L RL | | | |
| Chloride | | 4340 50.0 | | | |
| Sulfate | | 566 50.0 | | | |
| BTEX by EPA 8021B | <i>Extracted:</i> | Mar-19-08 10:00 | | | |
| | <i>Analyzed:</i> | Mar-19-08 17:26 | | | |
| | <i>Units/RL:</i> | mg/L RL | | | |
| Benzene | | ND 0.0010 | | | |
| Toluene | | ND 0.0020 | | | |
| Ethylbenzene | | ND 0.0010 | | | |
| m,p-Xylenes | | ND 0.0020 | | | |
| o-Xylene | | ND 0.0010 | | | |
| Xylenes, Total | | ND | | | |
| Total BTEX | | ND | | | |
| Metals per ICP by SW846 6010B | <i>Extracted:</i> | | | | |
| | <i>Analyzed:</i> | Mar-17-08 16:36 | | | |
| | <i>Units/RL:</i> | mg/L RL | | | |
| Calcium | | 506 0.100 | | | |
| Magnesium | | 120 0.010 | | | |
| Potassium | | 4.93 0.500 | | | |
| Sodium | | 1060 0.500 | | | |
| TDS by SM2540C | <i>Extracted:</i> | | | | |
| | <i>Analyzed:</i> | Mar-17-08 16:00 | | | |
| | <i>Units/RL:</i> | mg/L RL | | | |
| Total dissolved solids | | 6040 5.00 | | | |
| Total Alkalinity by EPA 310.1 | <i>Extracted:</i> | | | | |
| | <i>Analyzed:</i> | Mar-17-08 14:15 | | | |
| | <i>Units/RL:</i> | mg/L RL | | | |
| Alkalinity, Total (as CaCO3) | | 450 4.00 | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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 Brent Barron
 Odessa Laboratory Director



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F RPD exceeded lab control limits.
 - J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
 - U Analyte was not detected.
 - L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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| (210) 509-3334 | (210) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |
| (770) 449-8800 | (770) 449-5477 |



Form 2 - Surrogate Recoveries



Project Name: Pride Energy Company

Work Order #: 299688

Project ID: State QE 13 #1

Lab Batch #: 717610

Sample: 299447-003 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1,4-Difluorobenzene | 0.0307 | 0.0300 | 102 | 80-120 | |
| 4-Bromofluorobenzene | 0.0320 | 0.0300 | 107 | 80-120 | |

Lab Batch #: 717610

Sample: 299447-003 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1,4-Difluorobenzene | 0.0309 | 0.0300 | 103 | 80-120 | |
| 4-Bromofluorobenzene | 0.0322 | 0.0300 | 107 | 80-120 | |

Lab Batch #: 717610

Sample: 299688-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1,4-Difluorobenzene | 0.0329 | 0.0300 | 110 | 80-120 | |
| 4-Bromofluorobenzene | 0.0324 | 0.0300 | 108 | 80-120 | |

Lab Batch #: 717610

Sample: 506150-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1,4-Difluorobenzene | 0.0336 | 0.0300 | 112 | 80-120 | |
| 4-Bromofluorobenzene | 0.0353 | 0.0300 | 118 | 80-120 | |

Lab Batch #: 717610

Sample: 506150-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1,4-Difluorobenzene | 0.0327 | 0.0300 | 109 | 80-120 | |
| 4-Bromofluorobenzene | 0.0328 | 0.0300 | 109 | 80-120 | |

** Surrogates outside limits; data and surrogates confirmed by reanalysis.

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries



Project Name: Pride Energy Company

Work Order #: 299688

Project ID: State QE 13 #1

Lab Batch #: 717610

Sample: 506150-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-----------------------------------|---------------------|-----------------|-----------------|-------------------|--------|
| | 1,4-Difluorobenzene | 0.0306 | 0.0300 | 102 | 80-120 |
| 4-Bromofluorobenzene | 0.0331 | 0.0300 | 110 | 80-120 | |

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: **Pride Energy Company**

Work Order #: 299688

Project ID:

State QE 13 #1

Lab Batch #: 717368

Sample: 717368-1-BKS

Matrix: Water

Date Analyzed: 03/17/2008

Date Prepared: 03/17/2008

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Total Alkalinity by EPA 310.1 | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|------------------------|--------------------|-------------------|-------|
| Analytes | | | | | | |
| Alkalinity, Total (as CaCO3) | ND | 200 | 172 | 86 | 80-120 | |

Lab Batch #: 717419

Sample: 717419-1-BKS

Matrix: Water

Date Analyzed: 03/15/2008

Date Prepared: 03/15/2008

Analyst: LATCOR

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Anions by EPA 300/300.1 | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|-------------------------|------------------|-----------------|------------------------|--------------------|-------------------|-------|
| Analytes | | | | | | |
| Chloride | ND | 10.0 | 9.45 | 95 | 85-115 | |
| Sulfate | ND | 10.0 | 8.71 | 87 | 90-110 | L |

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

All results are based on MDL and validated for QC purposes.



Project Name: Pride Energy Company

Work Order #: 299688

Analyst: SHE

Lab Batch ID: 717610

Sample: 506150-1-BKS

Date Prepared: 03/19/2008

Batch #: 1

Project ID: State QE 13 #1

Date Analyzed: 03/19/2008

Matrix: Water

Units: mg/L

| BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | |
|--|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| BTEX by EPA 8021B | ND | 0.1000 | 0.0867 | 87 | 0.1 | 0.0848 | 85 | 2 | 70-125 | 25 | |
| Benzene | ND | 0.1000 | 0.0868 | 87 | 0.1 | 0.0848 | 85 | 2 | 70-125 | 25 | |
| Toluene | ND | 0.1000 | 0.0916 | 92 | 0.1 | 0.0885 | 89 | 3 | 71-129 | 25 | |
| Ethylbenzene | ND | 0.2000 | 0.1841 | 92 | 0.2 | 0.1774 | 89 | 4 | 70-131 | 25 | |
| m,p-Xylenes | ND | 0.1000 | 0.0998 | 100 | 0.1 | 0.0959 | 96 | 4 | 71-133 | 25 | |
| o-Xylene | ND | | | | | | | | | | |

Relative Percent Difference RPD = $200 * [(D-F)/(D+F)]$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Pride Energy Company

Work Order #: 299688

Lab Batch #: 717419

Date Analyzed: 03/15/2008

QC- Sample ID: 299690-001 S

Reporting Units: mg/L

Date Prepared: 03/15/2008

Batch #: 1

Project ID: State QE 13 #1

Analyst: LATCOR

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY

| Inorganic Anions by EPA 300 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
|---|--------------------------|-----------------|--------------------------|--------|-------------------|------|
| Chloride | 4150 | 1000 | 5250 | 110 | 85-115 | |
| Sulfate | 415 | 1000 | 1400 | 99 | 90-110 | |

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



Form 3 - MS / MSD Recoveries



Project Name: Pride Energy Company

Work Order #: 299688
 Lab Batch ID: 717610
 Date Analyzed: 03/19/2008
 Reporting Units: mg/L

QC-Sample ID: 299447-003 S
 Date Prepared: 03/19/2008
 Batch #: 1
 Matrix: Water
 Analyst: SHE

Project ID: State QE13 #1

| Analytes | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | Flag |
|-------------------|--|-----------------|--------------------------|----------------------|----------------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spiked Sample %R [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | |
| BTEX by EPA 8021B | ND | 0.1000 | 0.1038 | 104 | 0.1000 | 0.1121 | 112 | 7 | 70-125 | 25 | |
| Benzene | ND | 0.1000 | 0.1030 | 103 | 0.1000 | 0.1122 | 112 | 8 | 70-125 | 25 | |
| Toluene | ND | 0.1000 | 0.1055 | 106 | 0.1000 | 0.1161 | 116 | 9 | 71-129 | 25 | |
| Ethylbenzene | ND | 0.2000 | 0.2079 | 104 | 0.2000 | 0.2291 | 115 | 10 | 70-131 | 25 | |
| m,p-Xylenes | ND | 0.1000 | 0.1095 | 110 | 0.1000 | 0.1212 | 121 | 10 | 71-133 | 25 | |
| o-Xylene | | | | | | | | | | | |

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*(D-G)/(D+G)
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit

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



Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 299688

Lab Batch #: 717419
Date Analyzed: 03/15/2008
QC- Sample ID: 299690-001 D
Reporting Units: mg/L

Date Prepared: 03/15/2008
Batch #: 1

Project ID: State QE 13 #1
Analyst: LATCOR
Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Anions by EPA 300/300.1 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Chloride | 4150 | 4140 | 0 | 20 | |
| Sulfate | 415 | 406 | 2 | 20 | |

Lab Batch #: 717329
Date Analyzed: 03/17/2008
QC- Sample ID: 299654-001 D
Reporting Units: mg/L

Date Prepared: 03/17/2008
Batch #: 1

Analyst: LATCOR
Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Metals per ICP by SW846 6010B | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Calcium | 45.1 | 45.8 | 2 | 25 | |
| Magnesium | 22.6 | 21.8 | 4 | 25 | |
| Potassium | 8.64 | 8.45 | 2 | 25 | |
| Sodium | 172 | 172 | 0 | 25 | |

Lab Batch #: 717538
Date Analyzed: 03/17/2008
QC- Sample ID: 299683-002 D
Reporting Units: mg/L

Date Prepared: 03/17/2008
Batch #: 1

Analyst: RBA
Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| TDS by SM2540C | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Total dissolved solids | 978 | 972 | 1 | 30 | |

Lab Batch #: 717368
Date Analyzed: 03/17/2008
QC- Sample ID: 299680-001 D
Reporting Units: mg/L

Date Prepared: 03/17/2008
Batch #: 1

Analyst: WRU
Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Total Alkalinity by EPA 310.1 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Alkalinity, Total (as CaCO3) | 228 | 236 | 3 | 20 | |
| Alkalinity, Carbonate (as CaCO3) | ND | ND | NC | 20 | |
| Alkalinity, Bicarbonate (as CaCO3) | ND | ND | NC | 20 | |

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: R.T. Hicks
 Date/ Time: 3-14-08 4:15
 Lab ID #: 299688
 Initials: AL

Sample Receipt Checklist

| | | | | Client Initials |
|--|-----|----|---------------------------|-----------------|
| #1 Temperature of container/ cooler? | Yes | No | -1.5 °C | |
| #2 Shipping container in good condition? | Yes | No | | |
| #3 Custody Seals intact on shipping container/ cooler? | Yes | No | Not Present | |
| #4 Custody Seals intact on sample bottles/ container? | Yes | No | Not Present | |
| #5 Chain of Custody present? | Yes | No | | |
| #6 Sample instructions complete of Chain of Custody? | Yes | No | | |
| #7 Chain of Custody signed when relinquished/ received? | Yes | No | | |
| #8 Chain of Custody agrees with sample label(s)? | Yes | No | ID written on Cont./ Lid | |
| #9 Container label(s) legible and intact? | Yes | No | Not Applicable | |
| #10 Sample matrix/ properties agree with Chain of Custody? | Yes | No | | |
| #11 Containers supplied by ELOT? | Yes | No | | |
| #12 Samples in proper container/ bottle? | Yes | No | See Below | |
| #13 Samples properly preserved? | Yes | No | See Below | |
| #14 Sample bottles intact? | Yes | No | | |
| #15 Preservations documented on Chain of Custody? | Yes | No | | |
| #16 Containers documented on Chain of Custody? | Yes | No | | |
| #17 Sufficient sample amount for indicated test(s)? | Yes | No | See Below | |
| #18 All samples received within sufficient hold time? | Yes | No | See Below | |
| #19 Subcontract of sample(s)? | Yes | No | Not Applicable | |
| #20 VOC samples have zero headspace? | Yes | No | Not Applicable | |

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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



COVER LETTER

Wednesday, May 28, 2008

Andrew Parker
R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: Pride Energy-State QE #1

Order No.: 0805246

Dear Andrew Parker:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 5/16/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory, Inc.

Date: 28-May-08

CLIENT: R.T. Hicks Consultants, LTD
Project: Pride Energy-State QE #1
Lab Order: 0805246

CASE NARRATIVE

Prep Comments for TDS_PREP, Sample 0805246-01A: The prep HoldTime was exceeded by 5.80 days. Prep Comments for TDS_PREP, Sample 0805246-02A: The prep HoldTime was exceeded by 4.95 days.

Hall Environmental Analysis Laboratory, Inc.

Date: 28-May-08

CLIENT: R.T. Hicks Consultants, LTD
Lab Order: 0805246
Project: Pride Energy-State QE #1
Lab ID: 0805246-01

Client Sample ID: SB-03@58 fbs
Collection Date: 5/6/2008 3:30:00 PM
Date Received: 5/16/2008
Matrix: AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|----------|----|----------------------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SLB |
| Chloride | 430 | 2.0 | | mg/L | 20 | 5/22/2008 1:17:26 AM |
| EPA 120.1: SPECIFIC CONDUCTANCE | | | | | | Analyst: TAF |
| Specific Conductance | 1900 | 0.010 | | µmhos/cm | 1 | 5/20/2008 |
| SM 2540C TOTAL DISSOLVED SOLIDS | | | | | | Analyst: KMS |
| Total Dissolved Solids | 1500 | 400 | H | mg/L | 1 | 5/19/2008 |

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 28-May-08

CLIENT: R.T. Hicks Consultants, LTD **Client Sample ID:** SB-04@55 fbgs
Lab Order: 0805246 **Collection Date:** 5/7/2008 12:00:00 PM
Project: Pride Energy-State QE #1 **Date Received:** 5/16/2008
Lab ID: 0805246-02 **Matrix:** AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|-------|------|----------|----|----------------------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SLB |
| Chloride | 67 | 1.0 | | mg/L | 10 | 5/20/2008 3:57:21 PM |
| EPA 120.1: SPECIFIC CONDUCTANCE | | | | | | Analyst: TAF |
| Specific Conductance | 890 | 0.010 | | umhos/cm | 1 | 5/20/2008 |
| SM 2540C TOTAL DISSOLVED SOLIDS | | | | | | Analyst: KMS |
| Total Dissolved Solids | 720 | 200 | H | mg/L | 1 | 5/19/2008 |

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
E Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit RL Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: R.T. Hicks Consultants, LTD
 Project: Pride Energy-State QE #1

Work Order: 0805246

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------------------|--------|-------|------|------|----------|-----------|------|----------|------|
| Method: EPA Method 300.0: Anions | | | | | | | | | |
| Sample ID: MB | | MBLK | | | | | | | |
| Chloride | ND | mg/L | 0.10 | | | | | | |
| Sample ID: MB | | MBLK | | | | | | | |
| Chloride | ND | mg/L | 0.10 | | | | | | |
| Sample ID: LCS | | LCS | | | | | | | |
| Chloride | 4.853 | mg/L | 0.10 | 97.1 | 90 | 110 | | | |
| Sample ID: LCS | | LCS | | | | | | | |
| Chloride | 4.777 | mg/L | 0.10 | 95.5 | 90 | 110 | | | |

| | | | | | | | | | |
|---|------|------|----|------|----|-----|--|--|--|
| Method: SM 2640C Total Dissolved Solids | | | | | | | | | |
| Sample ID: MB-15979 | | MBLK | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 20 | | | | | | |
| Sample ID: LCS-15979 | | LCS | | | | | | | |
| Total Dissolved Solids | 1012 | mg/L | 20 | 99.7 | 80 | 120 | | | |

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name RT HICKS

Date Received:

5/16/2008

Work Order Number 0805246

Received by: AMF

Checklist completed by: [Signature]
Signature

5/16/08
Date

Sample ID labels checked by: AS
Initials

Matrix: Carrier name Client drop-off

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature?

16°

<6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Analytical Report 306330

for

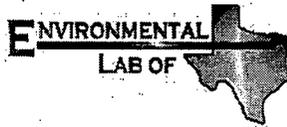
R.T. Hicks Consultants, LTD

Project Manager: Andrew Parker

Pride Energy Company

State QE 13 # 1

27-JUN-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta



27-JUN-08

Project Manager: **Andrew Parker**
R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104

Reference: XENCO Report No: **306330**
Pride Energy Company
Project Address: T12S-R34E, Section 13, Unit Letter O

Andrew Parker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 306330. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 306330 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 306330



R.T. Hicks Consultants, LTD, Albuquerque, NM
Pride Energy Company

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------------|---------------|-----------------------|---------------------|----------------------|
| MW-1 | W | Jun-19-08 07:20 | | 306330-001 |
| MW-1 Deep | W | Jun-19-08 08:05 | | 306330-002 |



Certificate of Analysis Summary 306330

R.T. Hicks Consultants, LTD, Albuquerque, NM

Project Name: Pride Energy Company

Project Id: State QE 13 # 1

Date Received in Lab: Jun-20-08 05:00 pm

Contact: Andrew Parker

Report Date: 27-JUN-08

Project Location: T12S-R34E, Section 13, Unit Letter O

Project Manager: Brent Barron, II

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 306330-001 | 306330-002 | | |
|--------------------------------------|-------------------|-----------------|-----------------|--|--|
| | <i>Field Id:</i> | MW-1 | MW-1 Deep | | |
| | <i>Depth:</i> | | | | |
| | <i>Matrix:</i> | WATER | WATER | | |
| | <i>Sampled:</i> | Jun-19-08 07:20 | Jun-19-08 08:05 | | |
| Alkalinity by SM2320B | <i>Extracted:</i> | | | | |
| | <i>Analyzed:</i> | Jun-26-08 10:45 | Jun-26-08 10:45 | | |
| | <i>Units/RL:</i> | mg/L RL | mg/L RL | | |
| Alkalinity, Total (as CaCO3) | | 236 4.00 | 180 4.00 | | |
| Alkalinity, Bicarbonate (as CaCO3) | | 236 4.00 | 180 4.00 | | |
| Alkalinity, Carbonate (as CaCO3) | | ND 4.00 | ND 4.00 | | |
| Inorganic Anions by EPA 300 | <i>Extracted:</i> | | | | |
| | <i>Analyzed:</i> | Jun-23-08 08:50 | Jun-23-08 08:50 | | |
| | <i>Units/RL:</i> | mg/L RL | mg/L RL | | |
| Chloride | | 1760 100 | 66.7 12.5 | | |
| Sulfate | | 348 100 | 132 12.5 | | |
| Metals per ICP by SW846 6010B | <i>Extracted:</i> | | | | |
| | <i>Analyzed:</i> | Jun-23-08 11:59 | Jun-23-08 11:59 | | |
| | <i>Units/RL:</i> | mg/L RL | mg/L RL | | |
| Calcium | | 288 0.100 | 65.8 0.100 | | |
| Magnesium | | 70.4 0.010 | 15.6 0.010 | | |
| Potassium | | 2.88 0.500 | 2.76 0.500 | | |
| Sodium | | 751 0.500 | 63.4 0.500 | | |
| TDS by SM2540C | <i>Extracted:</i> | | | | |
| | <i>Analyzed:</i> | Jun-23-08 16:30 | Jun-23-08 16:30 | | |
| | <i>Units/RL:</i> | mg/L RL | mg/L RL | | |
| Total dissolved solids | | 3310 5.00 | 464 5.00 | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi


 Brent Barron
 Odessa Laboratory Director



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

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9701 Harry Hines Blvd, Dallas, TX 75220
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238
2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
6017 Financial Dr., Norcross, GA 30071

| Phone | Fax |
|----------------|----------------|
| (281) 589-0692 | (281) 589-0695 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (210) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |
| (770) 449-8800 | (770) 449-5477 |



Blank Spike Recovery



Project Name: **Pride Energy Company**

Work Order #: 306330

Project ID:

State QE 13 # 1

Lab Batch #: 726566

Sample: 726566-1-BKS

Matrix: Water

Date Analyzed: 06/26/2008

Date Prepared: 06/26/2008

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Alkalinity by SM2320B Analytes | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|------------------------------------|------------------|-----------------|------------------------|--------------------|-------------------|-------|
| Alkalinity, Bicarbonate (as CaCO3) | ND | 200 | 176 | 88 | 80-120 | |

Lab Batch #: 726337

Sample: 726337-1-BKS

Matrix: Water

Date Analyzed: 06/23/2008

Date Prepared: 06/23/2008

Analyst: LATCOR

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Inorganic Anions by EPA 300 Analytes | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|---|------------------|-----------------|------------------------|--------------------|-------------------|-------|
| Chloride | ND | 10.0 | 11.6 | 116 | 80-120 | |
| Sulfate | ND | 10.0 | 12.0 | 120 | 80-120 | |

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

All results are based on MDL and validated for QC purposes.



Form 3 - MS Recoveries



Project Name: Pride Energy Company

Work Order #: 306330

Lab Batch #: 726337

Date Analyzed: 06/23/2008

QC- Sample ID: 306329-001 S

Reporting Units: mg/L

Date Prepared: 06/23/2008

Batch #: 1

Project ID: State QE 13 # 1

Analyst: LATCOR

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY

| Inorganic Anions by EPA 300 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
|---|--------------------------|-----------------|--------------------------|--------|-------------------|------|
| Chloride | 2600 | 500 | 3270 | 134 | 80-120 | X |
| Sulfate | 477 | 500 | 1080 | 121 | 80-120 | X |

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



Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 306330

Lab Batch #: 726566

Date Analyzed: 06/26/2008

QC- Sample ID: 306329-001 D

Reporting Units: mg/L

Date Prepared: 06/26/2008

Batch #: 1

Project ID: State QE 13 # 1

Analyst: WRU

Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Alkalinity by SM2320B | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | 190 | 180 | 20 | 20 | |
| Alkalinity, Carbonate (as CaCO3) | ND | ND | 20 | 20 | |
| Alkalinity, Total (as CaCO3) | 190 | 180 | 20 | 20 | |

Lab Batch #: 726337

Date Analyzed: 06/23/2008

QC- Sample ID: 306329-001 D

Reporting Units: mg/L

Date Prepared: 06/23/2008

Batch #: 1

Analyst: LATCOR

Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Inorganic Anions by EPA 300 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Chloride | 2600 | 2590 | 20 | 20 | |
| Sulfate | 477 | 463 | 20 | 20 | |

Lab Batch #: 726094

Date Analyzed: 06/23/2008

QC- Sample ID: 306329-001 D

Reporting Units: mg/L

Date Prepared: 06/23/2008

Batch #: 1

Analyst: LATCOR

Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Metals per ICP by SW846 6010B | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Calcium | ND | 603 | NC | 25 | |
| Magnesium | 120 | 116 | 3 | 25 | |
| Potassium | 4.41 | 4.85 | 10 | 25 | |
| Sodium | 564 | 575 | 2 | 25 | |
| Fluoride | ND | ND | NC | 20 | |

Lab Batch #: 726342

Date Analyzed: 06/23/2008

QC- Sample ID: 306329-001 D

Reporting Units: mg/L

Date Prepared: 06/23/2008

Batch #: 1

Analyst: WRU

Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| TDS by SM2540C | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Total dissolved solids | 5700 | 5580 | 2 | 30 | |

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: R. T. Hicks

Date/ Time: 6.20.08 17.00

Lab ID #: 306330

Initials: al

Sample Receipt Checklist

| | | | | Client Initials |
|--|-----|----|---------------------------|-----------------|
| #1 Temperature of container/ cooler? | Yes | No | 5.0 °C | |
| #2 Shipping container in good condition? | Yes | No | | |
| #3 Custody Seals intact on shipping container/ cooler? | Yes | No | Not Present | |
| #4 Custody Seals intact on sample bottles/ container? | Yes | No | Not Present | |
| #5 Chain of Custody present? | Yes | No | | |
| #6 Sample instructions complete of Chain of Custody? | Yes | No | | |
| #7 Chain of Custody signed when relinquished/ received? | Yes | No | | |
| #8 Chain of Custody agrees with sample label(s)? | Yes | No | ID written on Cont./ Lid | |
| #9 Container label(s) legible and intact? | Yes | No | Not Applicable | |
| #10 Sample matrix/ properties agree with Chain of Custody? | Yes | No | | |
| #11 Containers supplied by ELOT? | Yes | No | | |
| #12 Samples in proper container/ bottle? | Yes | No | See Below | |
| #13 Samples properly preserved? | Yes | No | See Below | |
| #14 Sample bottles intact? | Yes | No | | |
| #15 Preservations documented on Chain of Custody? | Yes | No | | |
| #16 Containers documented on Chain of Custody? | Yes | No | | |
| #17 Sufficient sample amount for indicated test(s)? | Yes | No | See Below | |
| #18 All samples received within sufficient hold time? | Yes | No | See Below | |
| #19 Subcontract of sample(s)? | Yes | No | Not Applicable | |
| #20 VOC samples have zero headspace? | Yes | No | Not Applicable | |

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RT HICKS CONSULTANTS
ATTN: ANDREW PARKER
901 RIO GRANDE BLVD. NW, SUITE F-142
ALBUQUERQUE, NM 87104

Receiving Date: 09/11/08
Reporting Date: 09/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM
Lab Number: H15916-1
Sample ID: MW-1-D

Analysis Date: 09/13/08
Sampling Date: 09/09/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

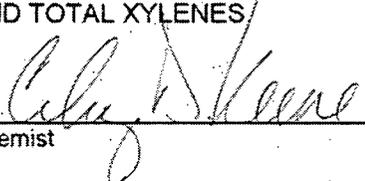
| VOLATILES (mg/L) | Sample Result | Method | QC | %Recov. | True Value |
|------------------|---------------|--------|-------|---------|------------|
| | H15916-1 | Blank | | | QC |
| Benzene | <0.001 | <0.001 | 0.052 | 104 | 0.050 |
| Toluene | <0.001 | <0.001 | 0.048 | 96.0 | 0.050 |
| Ethylbenzene | <0.001 | <0.001 | 0.050 | 100 | 0.050 |
| m,p-Xylene | <0.002 | <0.002 | 0.098 | 98.4 | 0.100 |
| o-Xylene | <0.001 | <0.001 | 0.052 | 103 | 0.050 |

% RECOVERY

| | |
|----------------------|-----|
| Dibromofluoromethane | 102 |
| Toluene-d8 | 111 |
| Bromofluorobenzene | 109 |

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES



Chemist



Date



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RT HICKS CONSULTANTS
ATTN: ANDREW PARKER
901 RIO GRANDE BLVD. NW, SUITE F-142
ALBUQUERQUE, NM 87104

Receiving Date: 09/11/08
Reporting Date: 09/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O - LEA CO., NM
Lab Number: H15916-1
Sample ID: MW-1-D

Analysis Date: 09/13/08
Sampling Date: 09/09/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

| VOLATILES (mg/kg) | Sample Result H15916-1 | Method Blank | True Value | | |
|-------------------|---------------------------|-----------------|------------|---------|-------|
| | | | QC | %Recov. | QC |
| Naphthalene: | <0.001 | <0.001 | 0.055 | 109 | 0.050 |

| % RECOVERY | |
|----------------------|-----|
| Dibromofluoromethane | 102 |
| Toluene-d8 | 111 |
| Bromofluorobenzene | 109 |

METHODS: EPA SW-846 8260

Alan D. Keene
Chemist

09/17/08
Date

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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RT HICKS CONSULTANTS
ATTN: ANDREW PARKER
901 RIO GRANDE BLVD. NW, SUITE F-142
ALBUQUERQUE, NM 87104

Receiving Date: 09/11/08
Reporting Date: 09/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM
Lab Number: H15916-2
Sample ID: MW-1-S

Analysis Date: 09/13/08
Sampling Date: 09/09/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

| VOLATILES (mg/L) | Sample Result H15916-2 | Method Blank | QC | %Recov. | True Value QC |
|------------------|---------------------------|-----------------|-------|---------|------------------|
| Benzene | <0.001 | <0.001 | 0.052 | 104 | 0.050 |
| Toluene | <0.001 | <0.001 | 0.048 | 96.0 | 0.050 |
| Ethylbenzene | <0.001 | <0.001 | 0.050 | 100 | 0.050 |
| m,p-Xylene | <0.002 | <0.002 | 0.098 | 98.4 | 0.100 |
| o-Xylene | <0.001 | <0.001 | 0.052 | 103 | 0.050 |

% RECOVERY

| | |
|----------------------|-----|
| Dibromofluoromethane | 103 |
| Toluene-d8 | 106 |
| Bromofluorobenzene | 103 |

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.

Chemist

Date



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ANALYTICAL RESULTS FOR
RT HICKS CONSULTANTS
ATTN: ANDREW PARKER
901 RIO GRANDE BLVD. NW, SUITE F-142
ALBUQUERQUE, NM 87104

Receiving Date: 09/11/08
Reporting Date: 09/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O - LEA CO., NM
Lab Number: H15916-2
Sample ID: MW-1-S

Analysis Date: 09/13/08
Sampling Date: 09/09/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

| VOLATILES (mg/kg) | Sample Result | Method | True Value | | |
|-------------------|---------------|--------|------------|---------|-------|
| | H15916-2 | Blank | QC | %Recov. | QC |
| Naphthalene | <0.001 | <0.001 | 0.055 | 109 | 0.050 |

| % RECOVERY | |
|----------------------|-----|
| Dibromofluoromethane | 103 |
| Toluene-d8 | 106 |
| Bromofluorobenzene | 103 |

METHODS: EPA SW-846 8260

Chemist

Andrew Parker

Date

09/17/08

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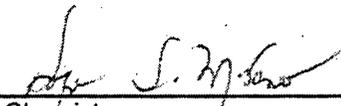
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ANALYTICAL RESULTS FOR
RT HICKS CONSULTANTS
ATTN: ANDREW PARKER
901 RIO GRANDE BLVD. NW, SUITE F-142
ALBUQUERQUE, NM 87104

Receiving Date: 09/11/08
Reporting Date: 09/16/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY - NEW MEXICO

Sampling Date: 09/09/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM

| LAB NO. | SAMPLE ID | TDS (mg/L) | CF (mg/L) |
|-----------------------------|-----------|---------------|--------------|
| Analysis Date: | | 09/12/08 | 09/12/08 |
| H15916-1 | MW-1-d | 542 | 64 |
| H15916-2 | MW-1-s | 2,590 | 1,000 |
| Quality Control | | NR | 490 |
| True Value QC | | NR | 500 |
| % Recovery | | NR | 98.0 |
| Relative Percent Difference | | NR | < 0.1 |
| METHOD: EPA 600/4-79-020 | | 160.1 | SM4500-CI-B |



Chemist

09/16/08

Date

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