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By OCD; Dr. Oberding at 10:24 am, Mar 02, 2015

AP - 80

STAGE 2
Closure

Date

03/02/2015_

January, 2015

**State QE 13 #1
Section 1, T 12S, R 34E, Unit L
Lea County, New Mexico
NMOCD Case # AP-080**

**Prepared For:
Yates Petroleum**

**Prepared by
R.T. Hicks Consultants, Ltd.
Albuquerque, New Mexico**

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

January 26, 2015

Mr. Jim Griswold and
Dr. Tomas Oberding
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Yates Petroleum State QE #1, T12S R34E Section 1, Lea County NM
NMOCD #AP-080
Abatement Completion Report

Dear Mr. Griswold:

On behalf of Yates Petroleum Corporation, R.T. Hicks Consultants (Hicks Consultants), is pleased to submit this Abatement Completion Report. For the benefit of YPC and their partner in this well, Pride Energy, Rule 19.15.30.19, which describes completion of abatement is reproduced below with *emphasis added*.

19.15.30.19 COMPLETION AND TERMINATION:

A. The division shall consider abatement complete when the responsible person meets the *standards and requirements set forth in 19.15.30.9 NMAC*. At that time, the responsible person shall submit an abatement completion report, documenting compliance with the standards and requirements set forth in 19.15.30.9 NMAC, to the director for approval. The abatement completion report also shall propose changes to long term monitoring and site maintenance activities, if needed, to be performed after the abatement plan's termination.

B. Provided that the responsible person meets the other requirements of 19.15.30 NMAC and provided further that *the responsible person has met the standards and requirements set forth in 19.15.30.9 NMAC, the director shall approve the abatement completion report*. When the director approves the abatement completion report, the director shall also notify the responsible person in writing that the abatement plan is terminated.

Applicable portions of Section 19.15.30.9 [*emphasis added*] are reproduced below for the benefit of YPC and Pride Energy.

19.15.30.9 ABATEMENT STANDARDS AND REQUIREMENTS:

A. The responsible person shall *abate the vadose zone so that water contaminants in the vadose zone will not with reasonable probability contaminate ground water* or surface water, in excess of the standards in Subsections B and C of 19.15.30.9 NMAC, through leaching, percolation or other transport mechanisms, or as the water table elevation fluctuates.

B. The responsible person shall *abate ground-water pollution at a place of withdrawal for present or reasonably foreseeable future use*, where the TDS concentration is 10,000 mg/l or less, to conform to the following standards:

- (1) toxic pollutants as defined in 20.6.2.7 NMAC shall not be present; and
- (2) the standards of 20.6.2.3103 NMAC shall be met.

C. The responsible person shall abate surface-water pollution

D. The division shall not consider subsurface-water and surface-water abatement complete until eight consecutive quarterly samples, or an alternate lesser number of samples the director approves, from the compliance sampling stations the director approved meet the abatement standards in Subsections A, B and C of 19.15.30.9 NMAC. The division shall consider abatement of water contaminants measured in solid-matrix samples of the vadose zone complete after one-time sampling from compliance stations the director approves.

The purpose of this report is to

- provide the results from ongoing investigations
- demonstrate that the operator has met the standards and requirements set forth in 19.15.30.9 NMAC

Background

On March 6, 2009, NMOCD determined the State QE 13 #1 Site - Stage 1 Abatement Plan dated April 14, 2008 administratively complete.

On December 18, 2008, Hicks Consultants submitted a Stage 2 Abatement Plan. Groundwater monitoring continued from 2008 to 2014.

In 2014, the operator implemented an OCD-approved vadose zone remedy. Because of the approved vadose zone remedy of 2014, this submission summarizes the groundwater data only.

Ground Water Sampling and Monitoring

Plate 1 shows the site location on a topographic map and includes ground water contours. As can be seen, ground water movement is to the southeast. Appendix A presents logs for MW-1s and MW-1d. An examination of the logs and forms shows that:

- i. The screened interval in the saturated zone for MW-1s is 38.5 to 46 feet (measured from top of casing)
- ii. MW-1s measures ground water quality in the uppermost 7 to 8 feet of the uppermost aquifer.
- iii. The screened interval for MW-1d is 54.5 to 64.5 feet (measured from top of casing)
- iv. MW-1d measures ground water quality in the aquifer from about 16 feet below the water table to about 27 feet below the water table

The results of all sampling events are presented in Table 1 (see Attachment A at the end of this report). Plate 2 is a site map showing recent ground water elevation; chloride and TDS concentrations. Figure 1 shows the average chloride and TDS concentration in the uppermost 27 feet of the aquifer. The average concentrations in MW-1 are calculated by averaging the concentration from MW-1s with the concentration from MW-1d. All laboratory data is in Appendix B.

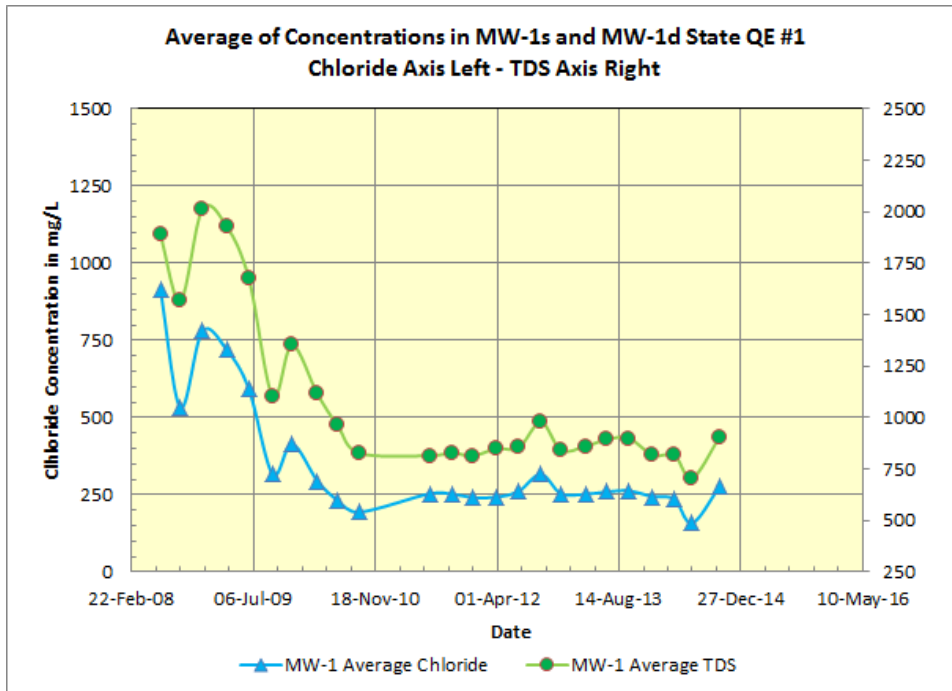


Figure 1: Averaged TDS and Chloride concentrations from MW-1d and MW-1s at the State QE 13 #1 site.

An examination of Table 1 and Figure 1 show that:

- Since routine monitoring began in 2008, TDS and chloride concentrations in MW-1s have declined to less than 1/3 of their original values.
- TDS and chloride concentrations in MW-1d have never exceeded 542 mg/L and 68 mg/L respectively. Average concentrations over this time interval are 490 mg/L and 63 mg/L. New Mexico ground water standards are 1000 mg/L and 250 mg/L respectively.
- The average TDS concentration of MW-1s and MW-1d has been below WQCC standards since June 2010.
- Since June 2010, 40% of the 17 sampling events show average chloride concentration in MW-s and MW-1d below 250 mg/L. However, during this 4-year period, chloride concentration exceeded 260 mg/L on four events and 275 mg/L only once.
- Since June 2010, the average chloride concentration in the uppermost 27 feet of the aquifer is 246 mg/L (17 sampling events)
- Since June 2010, there has been comparatively little variation in concentration

Conclusions

Based upon work at the site since 2008, we conclude:

- A. The responsible person has abated the vadose zone so that water contaminants in the vadose zone will not with reasonable probability contaminate ground water or surface water, in excess of the standards in Subsections B and C of 19.15.30.9 NMAC, through leaching, percolation or other transport mechanisms, or as the water table elevation fluctuates.

- B. Ground water more than 54.5 feet below ground surface (MW-1d) is not impacted by seepage from the Pride drilling pit or the previous pit used by Tenneco
- C. TDS and chloride concentrations in the uppermost 27 feet of ground water have been, on average, below New Mexico ground water standards since June 2010.
- D. Natural dispersion and dilution have effectively restored ground water quality
- E. The operator has abated groundwater pollution at a place of withdrawal for present or reasonably foreseeable future use, where the TDS concentration is 10,000 mg/l or less, to conform to the following standards:
 - (1) toxic pollutants as defined in 20.6.2.7 NMAC shall not be present; and
 - (2) the standards of 20.6.2.3103 NMAC shall be met.

We respectfully request that the Director approve the abatement completion report and notify the operator in writing that the abatement plan is terminated.

If you have any question or comments, please contact me or David Hamilton at 505-266-5004.

Sincerely,
R.T. Hicks Consultants

A handwritten signature in black ink, appearing to read "Randall Hicks", written in a cursive style.

Randall Hicks
Principal

cc: Katie Parker, Yates Petroleum Corporation
Matt Pride, Pride Energy
Dave Hamilton

Attachment A

Table 1: Sampling results for TDS, Chloride, BTEX and Naphthalene at MW-1 Deep and Mw-1 Shallow.

ND is not-detected. NA is not analyzed for.

MW-1 Deep								
Date	Depth to Water	Chloride	TDS	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
3/18/2008		60	498	<.001	<.001	<.001	<.003	<.001
6/19/2008	38.03	66.7	464	NA				
9/9/2008	38.07	64	542	<.001	<.001	<.001	<.003	<.001
12/8/2008	38.05	60	515	<.001	<.001	<.001	<.003	<.001
3/18/2009	38.08	60	498	<.001	<.001	<.001	<.003	<.001
6/17/2009	38.21	64	490	<.001	<.001	<.001	<.003	<.001
9/22/2009	38.06	64	447	<.001	<.001	<.001	<.003	<.001
3/25/2010		60	469	<.001	<.001	<.001	<.003	<.001
6/16/2010		64	493	<.001	<.001	<.001	<.003	<.001
9/14/2010		64	475	<.001	<.001	<.001	<.003	<.001
12/16/2010		64	474	NA				
3/23/2011		64	475					
6/30/2011		64	490					
9/30/2011		64	440					
12/20/2011		64	487					
3/28/2012		64	499					
6/28/2012		64	459					
9/27/2012		64	627					
12/18/2012		68	485					
3/28/2013		64	480					
6/26/2013		68	500					
9/24/2013		56	479					
12/30/2013		52	465					
3/28/2014		60	524					
6/9/14		60	474					
9/29/14		60	476					

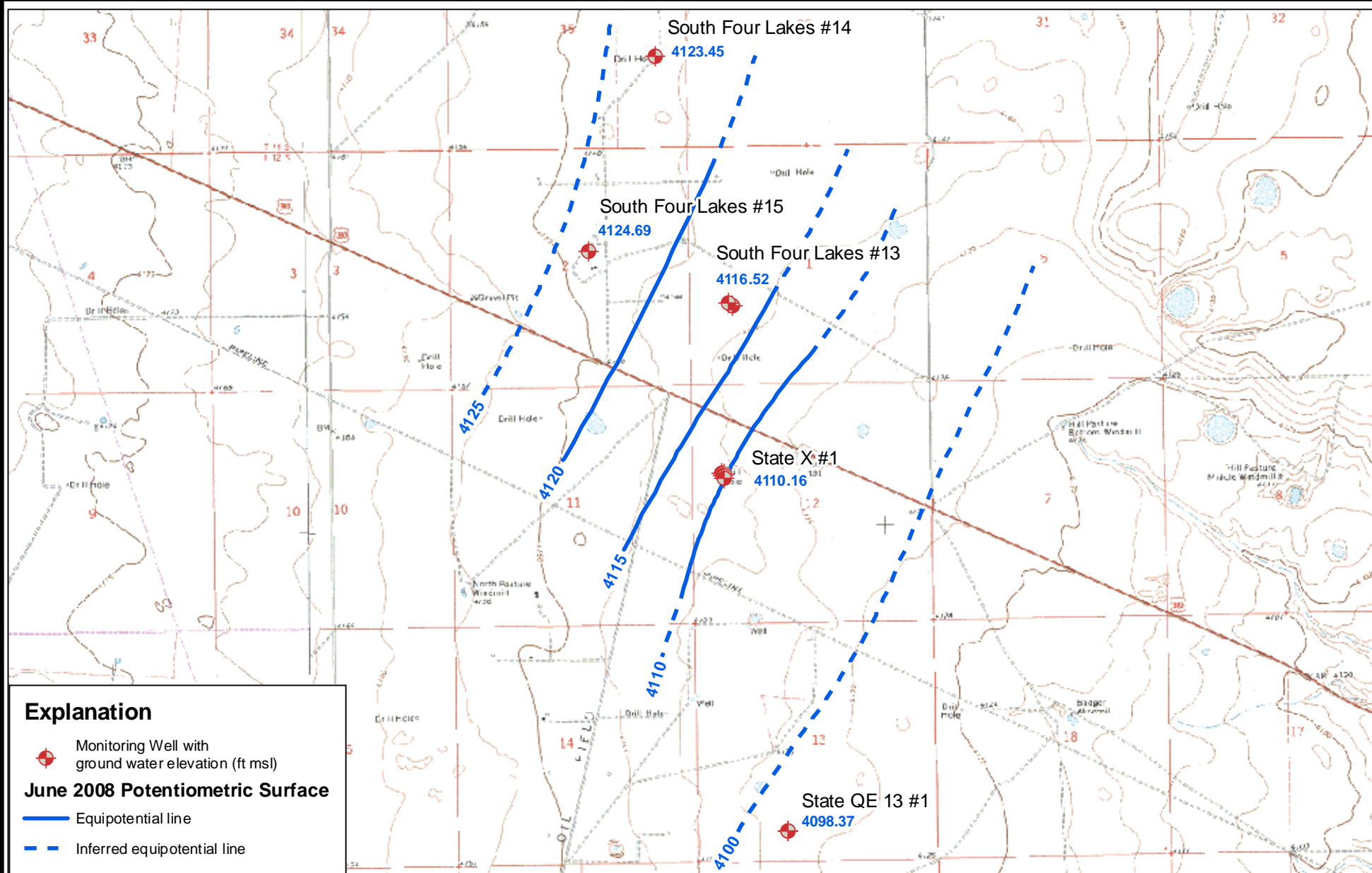
MW-1 Shallow								
Date	Depth to Water	Chloride	TDS	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
1/24/2008	38.5	1490						
3/13/2008	38.48	4340	6040	<.001	<.001	<.001	<.003	NA
3/18/2008		1380	3360	<.001	<.001	<.001	<.003	<.001
6/19/2008	38.59	1760	3310	NA				
9/9/2008	38.59	1000	2590	<.001	<.001	<.001	<.003	<.001
12/8/2008	38.52	1500	3510	<.001	<.001	<.001	<.003	<.001
3/18/2009	38.53	1380	3360	<.001	<.001	<.001	<.003	<.001
6/17/2009	38.67	1120	2860	<.001	<.001	<.001	<.003	<.001
9/22/2009	38.58	570	1760	<.001	<.001	<.001	<.003	<.001
3/25/2010		530	1760	<.001	<.001	<.001	<.003	<.001
6/16/2010		400	1430	<.001	<.001	<.001	<.003	<.001
9/14/2010		324	1180	<.001	<.001	<.001	<.003	<.001
12/16/2010		444	1230	NA				
3/23/2011		276	943					
6/30/2011		444	1140					
9/30/2011		440	1220					
12/20/2011		420	1140					
3/28/2012		420	1200					
6/28/2012		460	1250					
9/27/2012		570	1430					
12/18/2012		440	1200					
3/28/2013		440	1240					
6/26/2013		452	1290					
9/24/2013		470	1320					
12/30/2013		436	1170					
3/28/2014		412	1110					
6/9/14		256	936					
9/29/14		490	1330					

Averaged Chloride and TDS		
Date	Chloride	TDS
3/18/2008	720	1929
6/19/2008	913	1887
9/9/2008	532	1566
12/8/2008	780	2013
3/18/2009	720	1929
6/17/2009	592	1675
9/22/2009	317	1104
3/25/2010	295	1115
6/16/2010	232	962
9/14/2010	194	828
12/16/2010	254	852
3/23/2011	170	709
6/30/2011	254	815
9/30/2011	252	830
12/20/2011	242	814
3/28/2012	242	850
6/28/2012	262	855
9/27/2012	317	1029
12/18/2012	254	843
3/28/2013	252	860
6/26/2013	260	895
9/24/2013	263	900
12/30/2013	244	818
3/28/2014	236	817
6/9/14	158	705
9/29/14	275	903

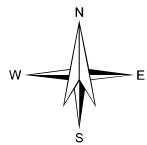
Plates

R.T. Hicks Consultants, Ltd.

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



0 1,500 3,000
Feet



R.T. Hicks Consultants, Ltd.
901 Rio Grande Blvd NW Suite F-142
Albuquerque, NM 87104
Ph: 505.266.5004

Potentiometric Surface (June 2008)

Plate 1

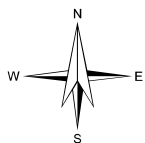
Yates Petroleum: State QE 13 #1

May 2014



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

0 50 100
 Feet



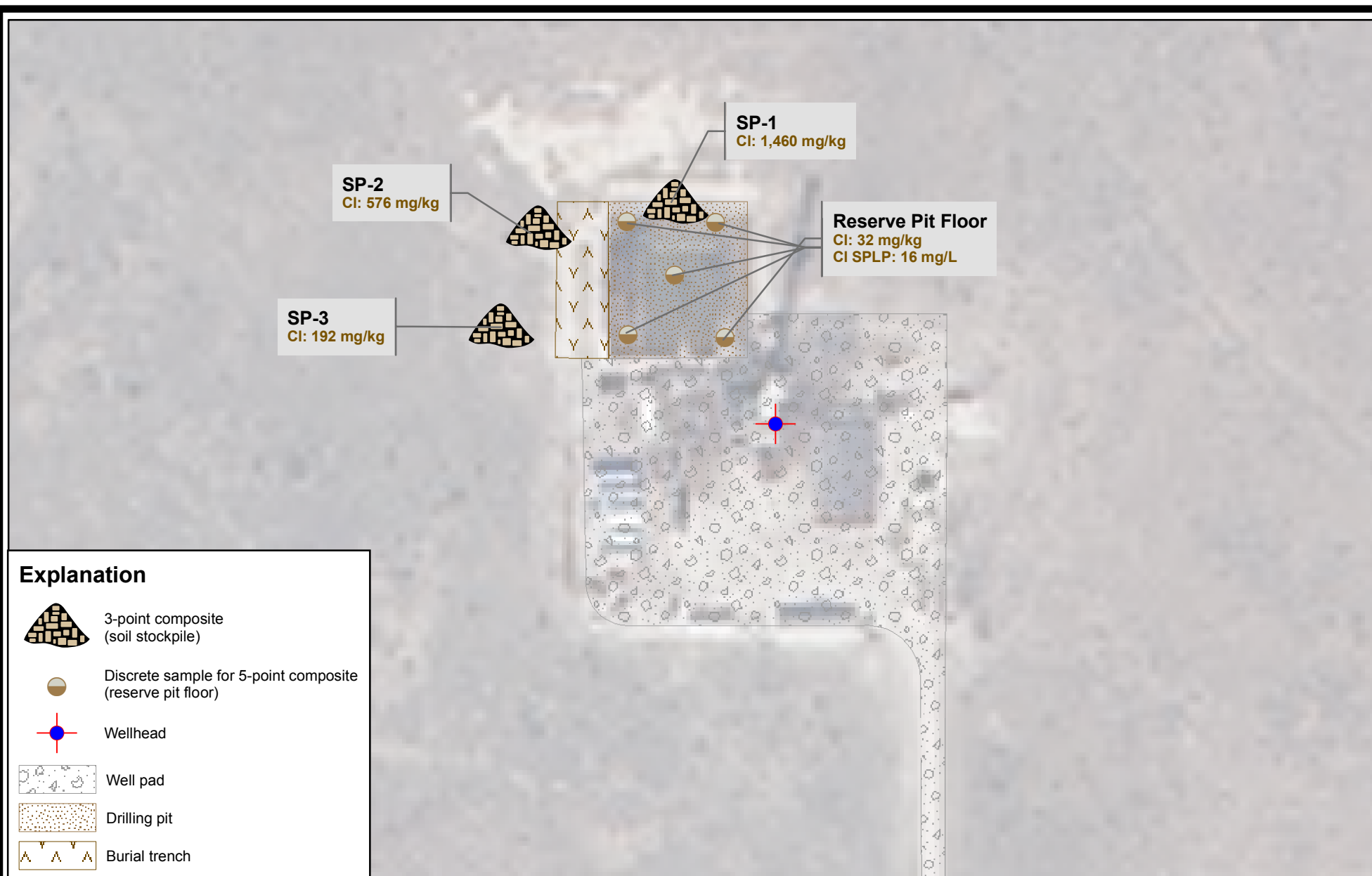
R.T. Hicks Consultants, Ltd
 901 Rio Grande Blvd NW Suite F-142
 Albuquerque, NM 87104
 Ph: 505.266.5004

Chloride and TDS in Ground Water (Sept 14, 2010)

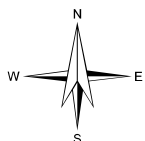
Yates Petroleum: State QE 13 #1

Plate 2

May 2014



0 50 100
Feet



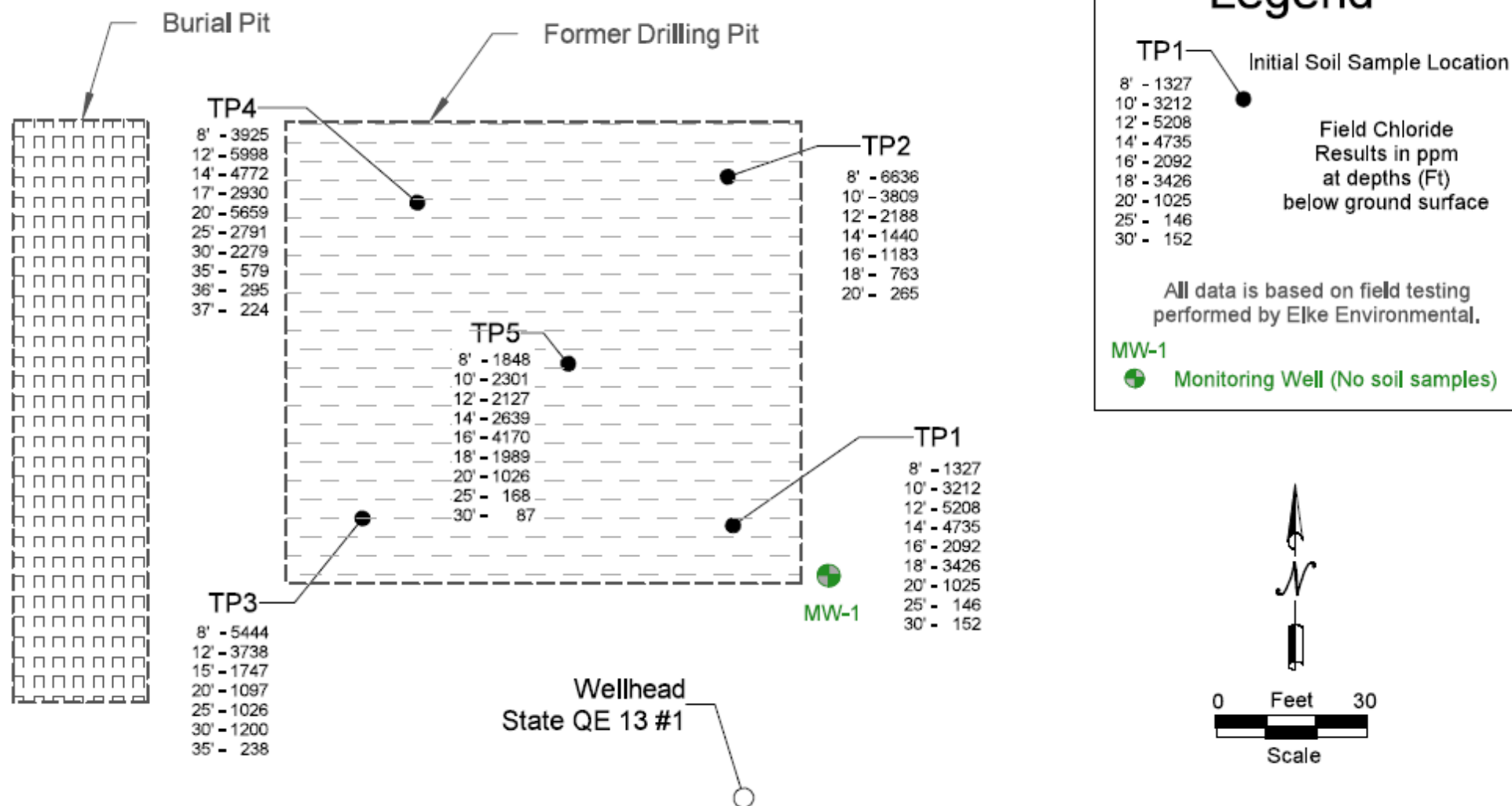
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Albuquerque, NM 87104
Ph: 505.266.5004

Soil Sample Locations (September 2009)

Plate 3

Yates Petroleum: State QE 13 #1

May 2014



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Albuquerque, NM 87104
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Soil Sampling Map
Dec. 31, 2007 / Jan 2-3, 2008
Yates Petroleum: State QE 13 #1

Plate 4
May 2014

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

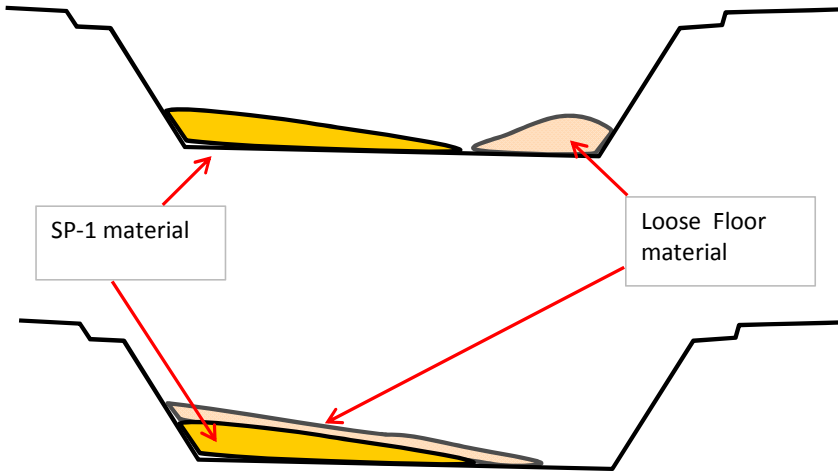
Step 1

Excavate as required to create a 3 foot wide clean zone around chloride impact.

Reserve all topsoil and clean caliche

NORTH

SOUTH



Step 2

Push loose floor material to one side.

Place SP -1 material in wedge on other side

Step 3

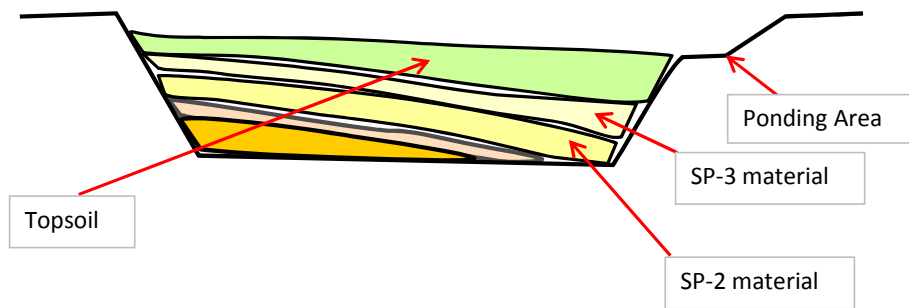
Push loose floor material over SP-1 material

Step 4

Place SP-2 and SP-3 material over floor material

Place topsoil over SP-2 and SP-3 material

Grade to send runoff to ponding area



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Yates Petroleum

Plate 5

State QE 13 #1 Reserve Pit Excavation Closure

May, 2014

Appendix A

R.T. Hicks Consultants, Ltd.

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

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Pride Energy Work Phone: _____
Contact: _____ Home Phone: _____
Address: P.O. Box 701950
City: Tulsa State: OK Zip: 74170

2. LOCATION OF WELL (A,B,C, or D required, E or F if known)

A. 1/4 1/4 1/4 Section: 13 Township: 12S Range: 34E N.M.P.M.
in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 33 d 16 m 24.0 s Longitude: 103 d 27 m 58.6 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract N of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): State of New Mexico

3. DRILLING CONTRACTOR

License Number: WD-1456

Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD: QE 13 #1 MW-1

Drilling began: 01/22/08; Completed: 01/22/08; Type tools: Air Rotary;
Size of hole: 6 1/8 in.; Total depth of well: 46.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: 25.90 ft.

File Number: _____
Form: wr-20 page 1 of 4

Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: QE 13 #1 MW-1

Depth in Feet		Thickness	Description of	Estimated Yield
From	To	in feet	water-bearing formation	(GPM)
25.9	46.0	20.1	Reddish brown sandy clay	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
2.0	Sch. 40	4.0	0.0	26.0	26.0			
2.0	.020	4.0	26.0	46.0	20.0		26.0	46.0
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole	Sacks	Cubic Feet	Method of Placement
From	To	Diameter	of mud	of Cement	
46.0	24.0	6 1/8	10.0		8/16 sand.
24.0	10.0	6 1/8	2.0		Bentonite Pellets
10.0	0.0	6 1/8	10.0	1.997	Cement
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

8. PLUGGING RECORD

Plugging Contractor: _____
Address: _____
Plugging Method: _____
Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____

File Number: _____ Trn Number: _____
Form: wr-20 page 2 of 4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: QE 13 #1 MW-1

[illegible]

File Number:

Form: wr-20

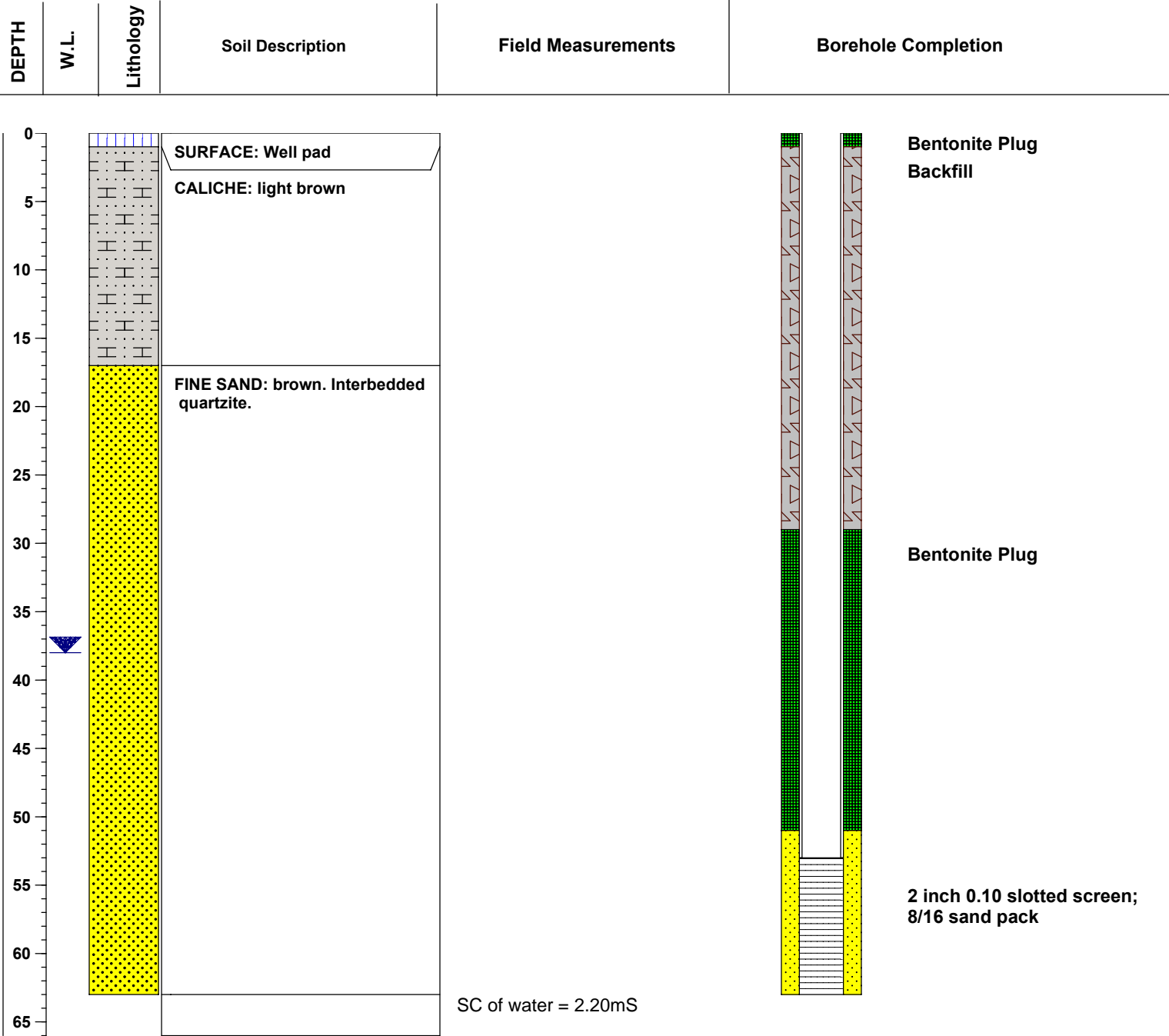
page 3 of 4

Trn Number:

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



Appendix B

R.T. Hicks Consultants, Ltd.

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



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: 06/18/10
Reporting Date: 06/22/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H20153-1

Analysis Date: 06/21/10
Sampling Date: 06/16/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: HM
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H20153-1	Method Blank	QC %Recov.	True Value QC
------------------	---------------------------	-----------------	------------	------------------

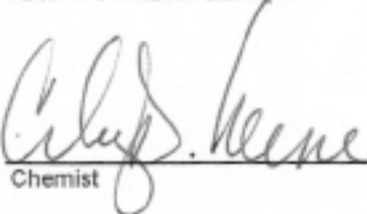
Benzene	<0.001	<0.001	0.011	110	0.010
Toluene	<0.001	<0.001	0.010	100	0.010
Ethylbenzene	<0.001	<0.001	0.010	100.0	0.010
m+p - Xylene	<0.002	<0.002	0.023	113	0.020
o-Xylene	<0.001	<0.001	0.011	110	0.010

% Recovery

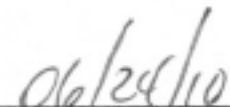
Dibromofluoromethane	90.9
Toluene-d8	101
4-Bromofluorobenzene	104

METHODS: EPA 8W-846-8260.

TEXAS NELAP ACCREDITATION 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

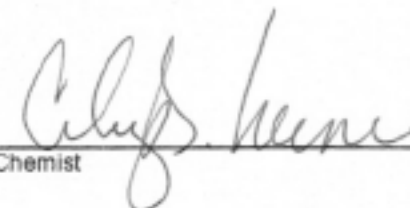
Receiving Date: 06/18/10
Reporting Date: 06/22/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H20153-1

Analysis Date: 06/21/10
Sampling Date: 06/16/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: HM
Analyzed By: ZL

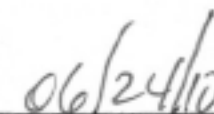
BTEX 8260 (mg/L)	Sample Result	Method	True Value	
	H20153-1	Blank	QC %Recov.	QC
Naphthalene	<0.001	<0.001	0.010	100

% Recovery	
Dibromofluoromethane	90.9
Toluene-d8	101
4-Bromofluorobenzene	104

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.



Chemist



Date



CARDINAL LABORATORIES

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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: 06/18/10
Reporting Date: 06/22/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H20153-2

Analysis Date: 06/21/10
Sampling Date: 06/16/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: HM
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result	Method	QC	%Recov.	True Value
	H20153-2	Blank			QC

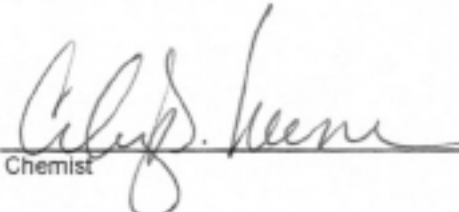
Benzene	<0.001	<0.001	0.011	110	0.010
Toluene	<0.001	<0.001	0.010	100	0.010
Ethylbenzene	<0.001	<0.001	0.010	100.0	0.010
m+p - Xylene	<0.002	<0.002	0.023	113	0.020
o-Xylene	<0.001	<0.001	0.011	110	0.010

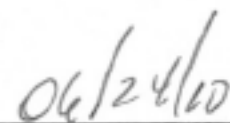
% Recovery

Dibromofluoromethane	108
Toluene-d8	112
4-Bromofluorobenzene	100

METHODS: EPA SW-846-8260.

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


Chemist


Date

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

 Receiving Date: 06/18/10
 Reporting Date: 06/22/10
 Project Number: STATE QE 13 #1
 Project Name: YATES PETROLEUM
 Project Location: T12S-R34E-SEC13 UNIT LETTER O
 LEA COUNTY, NM
 Sample ID: MW-1-S
 Lab Number: H20153-2

 Analysis Date: 06/21/10
 Sampling Date: 06/16/10
 Sample Type: WATER
 Sample Condition: COOL & INTACT @ 1.5°C
 Sample Received By: HM
 Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H20153-2	Method Blank	QC %Recov.	True Value QC
------------------	---------------------------	-----------------	------------	------------------

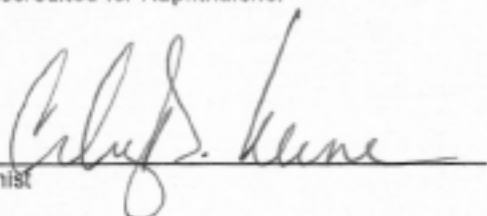
Naphthalene	<0.001	<0.001	0.010	100	0.010
-------------	--------	--------	-------	-----	-------

% Recovery

Dibromofluoromethane	108
Toluene-d8	112
4-Bromofluorobenzene	100

 METHODS: EPA SW-846-8260.
 Not accredited for Naphthalene.

Chemist



Date





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: 06/18/10

Reporting Date: 06/22/10

Project Number: STATE QE 13 #1

Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY - NEW MEXICO

Sampling Date: 06/16/10

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: HM

LAB NO.	SAMPLE ID	TDS (mg/L)	Cl ⁻ (mg/L)
Analysis Date:		06/21/10	06/22/10
H20153-1	MW-1-d	493	64
H20153-2	MW-1-s	1,430	400
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		9.3	< 0.1

METHOD: EPA 800/4-79-020

160.1

SM4500-Cl-B

Not accredited for TDS and Chloride.

Chemist

Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

September 29, 2010

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/17/10 10:36.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: ?

Received:	09/17/2010	Sampling Date:	09/14/2010
Reported:	09/29/2010	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - d (H020879-01)

BTEX + Naphthalene 8260B			mg/L							Analyzed By: CMS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.001	0.001	09/27/2010	ND	0.018	90.6	0.0200	8.05			
Toluene*	<0.001	0.001	09/27/2010	ND	0.020	99.5	0.0200	10.3			
Ethylbenzene*	<0.001	0.001	09/27/2010	ND	0.017	86.7	0.0200	8.45			
m+p - Xylene	<0.002	0.002	09/27/2010	ND	0.034	86.0	0.0400	8.70			
o-Xylene	<0.001	0.001	09/27/2010	ND	0.018	87.6	0.0200	8.68			
Total Xylenes*	<0.003	0.003	09/27/2010	ND	0.052	86.6	0.0600	8.69			

Surrogate: Dibromofluoromethane 83.0 % 80-120

Surrogate: Toluene-d8 70.4 % 80-120

Surrogate: 4-Bromofluorobenzene 73.4 % 80-120

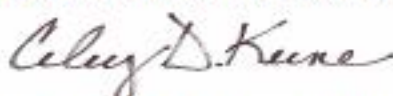
Chloride, SM4500Cl-B		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	09/20/2010	ND	112	112	100	3.64	

TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	475	5.00	09/20/2010	ND				0.978	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: ?

Received:	09/17/2010	Sampling Date:	09/14/2010
Reported:	09/29/2010	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - s (H020879-02)

BTEX + Naphthalene 8260B			mg/L							Analyzed By: CMS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.001	0.001	09/27/2010	ND	0.018	90.6	0.0200	8.05			
Toluene*	<0.001	0.001	09/27/2010	ND	0.020	99.5	0.0200	10.3			
Ethylbenzene*	<0.001	0.001	09/27/2010	ND	0.017	86.7	0.0200	8.45			
m+p - Xylene	<0.002	0.002	09/27/2010	ND	0.034	86.0	0.0400	8.70			
o-Xylene	<0.001	0.001	09/27/2010	ND	0.018	87.6	0.0200	8.68			
Total Xylenes*	<0.003	0.003	09/27/2010	ND	0.052	86.6	0.0600	8.69			

Surrogate: Dibromofluoromethane 92.6 % 80-120

Surrogate: Toluene-d8 91.6 % 80-120

Surrogate: 4-Bromofluorobenzene 93.0 % 80-120

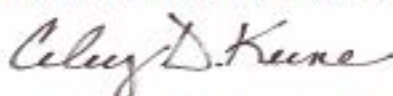
Chloride, SM4500Cl-B			mg/L							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	324	4.00	09/20/2010	ND	112	112	100	3.64			

TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1180	5.00	09/20/2010	ND				0.978	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

September 29, 2010

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/17/10 10:36.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: ?

Received:	09/17/2010	Sampling Date:	09/14/2010
Reported:	09/29/2010	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - d (H020879-01)

BTEX + Naphthalene 8260B		mg/L		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.001	0.001	09/27/2010	ND	0.018	91.5	0.0200	5.42	

Surrogate: Dibromofluoromethane 83.0 % 80-120

Surrogate: Toluene-d8 70.4 % 80-120

Surrogate: 4-Bromofluorobenzene 73.4 % 80-120

Sample ID: MW - 1 - s (H020879-02)

BTEX + Naphthalene 8260B		mg/L		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.001	0.001	09/27/2010	ND	0.018	91.5	0.0200	5.42	

Surrogate: Dibromofluoromethane 92.6 % 80-120

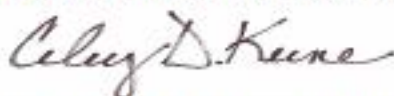
Surrogate: Toluene-d8 91.6 % 80-120

Surrogate: 4-Bromofluorobenzene 93.0 % 80-120

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
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***	Insufficient time to reach temperature.
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

December 22, 2010

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/10 9:10.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 12/20/2010
 Reported: 12/22/2010
 Project Name: STATE QE 13 #1
 Project Number: NONE GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 12/16/2010
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H021564-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	4.00	12/22/2010	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	474	5.00	12/21/2010	ND				13.6		

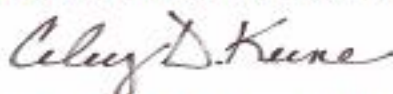
Sample ID: MW - 1 - S (H021564-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	444	4.00	12/22/2010	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	1230	5.00	12/21/2010	ND				13.6		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

101 East Maryland - Hobbs, New
Mexico 88340
Tel (575) 393-2326
Fax (575) 593-2478

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

#01240 BVT

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

Phone Results	Yes	No
Fax Results	Yes	No

REMARKS:

Email Results to:

andrew@rthicksconsult.com
jerryf@vatespetroleum.com
rozanne@valornet.com

Company Name:	RT Hicks Consultants	BILL TO	Company:	PO#
Project Manager:	Andrew Parker		Yates Petroleum	Jerry Fanning
Address:	(Street, City, Zip) 901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104		Address:	(Street, City, Zip) 105 S 4th Street ~ Artesia, New Mexico 88210
Phone #:			Phone#:	Fax#:
			(575) 748-1471	

Project #: State QE 13 #1
Project Name: Yates Petroleum
Project Location: T12S-R34E-Sec13 Unit Letter Q ~ Lea County - New Mexico
Sampler Signature: Roxanne Johnson (575)831-8310
FARMING OVERVIEW.COM

[illegible]

Requisitioned By: Rozanne Johnson	Date: 12-20-2010	Time: 7:00	Received by: Doree Henderson	Date: 12-20-2010	Time: 7:02
Requisitioned By: Doree Henderson	Date: 12-20-10	Time: 9:10	Received By: (Laboratory Staff) Doree Henderson	Date: 12/20/10	Time: 9:10
Delivered By: (Circle One)			CHECKED BY:		
Sampler - UPS - Bus - Other:			Saltpetre Condition Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Good <input type="checkbox"/> Insect <input type="checkbox"/>		

226

March 29, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/24/11 16:35.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
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Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

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Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 03/24/2011
 Reported: 03/29/2011
 Project Name: STATE QE 13 #1
 Project Number: NONE GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 03/23/2011
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H100578-01)

Chloride, SM4500Cl-B		mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	4.00	03/29/2011	ND	104	104	100	0.00		
TDS 160.1		mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	475	5.00	03/28/2011	ND				0.193		

Sample ID: MW - 1 - S (H100578-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	276	4.00	03/29/2011	ND	104	104	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	943	5.00	03/28/2011	ND				0.193		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

July 08, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 07/01/11 15:37.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 07/01/2011
 Reported: 07/08/2011
 Project Name: STATE QE 13 #1
 Project Number: NONE GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 06/30/2011
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW-1-D (H101373-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	4.00	07/05/2011	ND	112	112	100	3.64		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	490	5.00	07/05/2011	ND	228	95.0	240	1.06		

Sample ID: MW-1-S (H101373-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	444	4.00	07/05/2011	ND	112	112	100	3.64		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	1140	5.00	07/05/2011	ND	228	95.0	240	1.06		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

October 04, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/30/11 14:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	09/30/2011	Sampling Date:	09/30/2011
Reported:	10/04/2011	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW-1-D (H102103-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	4.00	10/03/2011	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	440	5.00	09/30/2011	ND	222	92.5	240	2.97		

Sample ID: MW-1-S (H102103-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	440	4.00	10/03/2011	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	1220	5.00	09/30/2011	ND	222	92.5	240	2.97		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

December 28, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/11 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	12/20/2011	Sampling Date:	12/20/2011
Reported:	12/28/2011	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - D (H102752-01)

Chloride, SM4500Cl-B		mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	64.0	4.00	12/21/2011	ND	108	108	100	3.77		
TDS 160.1		mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	487	5.00	12/21/2011	ND	232	96.7	240	4.31		

Sample ID: MW - 1 - S (H102752-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	420	4.00	12/21/2011	ND	108	108	100	3.77		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1140	5.00	12/21/2011	ND	232	96.7	240	4.31		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
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***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

April 05, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/30/12 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 03/30/2012
 Reported: 04/05/2012
 Project Name: STATE QE 13 #1
 Project Number: NOT GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 03/28/2012
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H200759-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	64.0	4.00	04/03/2012	ND	100	100	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	499	5.00	04/02/2012	ND	236	98.3	240	0.656		

Sample ID: MW - 1 - S (H200759-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	420	4.00	04/03/2012	ND	100	100	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1200	5.00	04/02/2012	ND	236	98.3	240	0.656		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
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***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

July 03, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 06/29/12 9:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 06/29/2012
 Reported: 07/03/2012
 Project Name: STATE QE 13 #1
 Project Number: NOT GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 06/28/2012
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H201463-01)

Chloride, SM4500Cl-B		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	07/02/2012	ND	100	100	100	3.92	
TDS 160.1		mg/L	Analyzed By: AP						

TDS 160.1		mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	459	5.00	07/03/2012	ND	235	97.9	240	1.94	

Sample ID: MW - 1 - S (H201463-02)

Chloride, SM4500Cl-B		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	460	4.00	07/02/2012	ND	100	100	100	3.92	
TDS 160.1		mg/L	Analyzed By: AP						

TDS 160.1		mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1250	5.00	07/03/2012	ND	235	97.9	240	1.94	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

101 East Marlboro - Hobbs, New
Mexico 88240
Tel (575) 303-2308
Fax (575) 393-0475

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID:

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

Phone Results	Yes	No
Fax Results	Yes	No

Email Results to:

andrew@rthicksconsult.com
jerryf@vatespetroleum.com
rozanne@valornet.com

Company Name:	RT Hicks Consultants	BILL TO	Company:	PO#
Project Manager:	Andrew Parker	Yates Petroleum	Jerry Fanning	
Address:	(Street, City, Zip) 901 Rio Grande Blvd NW Suite F-142 ~ Albuquerque, NM 87104	Address:	(Street, City, Zip) 105 S 4th Street ~ Artesia, New Mexico 88210	
		Phone#:	Phone#:	Fac#:
			(575) 748-1471	

Project #: State QE 13 #1
Project Name: Yates Petroleum
Project Location: T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico
Sampler Signature: [Signature]
McKenzie Johnson (575)631-8310
mckenziejohnson@yatespetroleum.com

[illegible]

Refrigerated by:	Date:	Time:
Brianne Johnson	6-29-2012	8:15
Received By:	Date:	Time:
Vladimir Severin	6-29-2012	8:16
Refrigerated by:	Date:	Time:
Brianne Johnson	6-29-2012	9:35
Received By:	Date:	Time:
Vladimir Severin	6-29-2012	9:35
Delivered By:	(Circle One)	
Sampler - UPS - Bus - Other:		

October 09, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 10/03/12 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/03/2012	Sampling Date:	09/27/2012
Reported:	10/09/2012	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	none given	Sample Received By:	Celey D. Keene
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - D (H202411-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	64.0	4.00	10/08/2012	ND	100	100	100	3.92		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	527	5.00	10/04/2012	ND	269	112	240	0.456		

Sample ID: MW - 1 - S (H202411-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	570	4.00	10/08/2012	ND	100	100	100	3.92		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1430	5.00	10/04/2012	ND	269	112	240	0.456		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages - Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated means or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

December 21, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/18/12 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	12/18/2012	Sampling Date:	12/18/2012
Reported:	12/21/2012	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	none given	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW-1-D (H203043-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	68.0	4.00	12/19/2012	ND	100	100	100	7.69		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	485	5.00	12/21/2012	ND	210	87.5	240	7.73		

Sample ID: MW-1-S (H203043-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	440	4.00	12/19/2012	ND	100	100	100	7.69		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1200	5.00	12/21/2012	ND	210	87.5	240	7.73		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages - Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

April 04, 2013

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/28/13 14:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 03/28/2013
 Reported: 04/04/2013
 Project Name: STATE QE 13 #1
 Project Number: NOT GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 03/28/2013
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H300749-01)

Chloride, SM4500Cl-B		mg/L	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	04/01/2013	ND	108	108	100	0.00	
TDS 160.1		mg/L	Analyzed By: AP						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	480	5.00	04/03/2013	ND	240	100	240	1.92	

Sample ID: MW - 1 - S (H300749-02)

Chloride, SM4500Cl-B		mg/L	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	440	4.00	04/01/2013	ND	108	108	100	0.00	
TDS 160.1		mg/L	Analyzed By: AP						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1240	5.00	04/03/2013	ND	240	100	240	1.92	

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

Company Name: **RT Hicks Consultants** **Yates Petroleum** **Jerry Fanning** **PO#**
Project Manager: **Andrew Parker** **Address:** **106 S 4th Street - Artesia, New Mexico 88210** **(Street, City, Zip)**

Address: **(Street, City, Zip)** **Phone:** **(575) 748-1471** **Fax:**

Phone #: **(505) 286-5004** **Fax #:**

Project #: **State QE 13 #1** **Project Name:** **Yates Petroleum**

Project Location: **T12S-R34E-Sect13 Unit Letter O ~ Lea County - New Mexico** **Sampler Signature:** **Rozanne Johnson (5/5/831-8310)** **rozanne@valornet.com**

LAB #	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL (2 40ml VOA)	HNO ₃	NaHSO ₄	H ₂ SO ₄	ICE (1-1Lbs HDPE)	NONE	DATE (2013)	TIME
LAB USE ONLY															
1	MW-1-d	G	1	X										3-28	9:40
2	MW-1-s	G	1	X										3-28	10:55

MTBE 8021B/602	
BTEX 8260	
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	
PCB's 8082/608	
Pesticides 8081A/608	
BOD, TSS, pH	
Moisture Content	
Cations (Ca, Mg, Na, K)	
Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	
Total Dissolved Solids (160.1 / SM2540C)	X
Chlorides (325.3 / SM4500 B)	X
Turn Around Time ~ 24 Hours	

LAB #	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL (2 40ml VOA)	HNO ₃	NaHSO ₄	H ₂ SO ₄	ICE (1-1Lbs HDPE)	NONE	DATE (2013)	TIME
LAB USE ONLY															
1	MW-1-d	G	1	X										3-28	9:40
2	MW-1-s	G	1	X										3-28	10:55

MTBE 8021B/602	
BTEX 8260	
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	
PCB's 8082/608	
Pesticides 8081A/608	
BOD, TSS, pH	
Moisture Content	
Cations (Ca, Mg, Na, K)	
Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	
Total Dissolved Solids (160.1 / SM2540C)	X
Chlorides (325.3 / SM4500 B)	X
Turn Around Time ~ 24 Hours	

Relinquished by: **Rozanne Johnson** **Date:** **3-28-2013** **Time:** **14:42**

Received by: **J. Laboratory Staff** **Date:** **3-28-2013** **Time:** **14:43**

Delivered By: **(Circle One)** **Sample Condition** **Cost** **Trust** **Checked By:** **AA**

Phone Results: **Yes** **No** **Additional Fax Number:**

Sampler - **UPS - Bus - Other:** **1.59 ea** **Yes** **No** **(Initials)** **AA**

Remarks: **Email Results to:** **andrew@rthickconsult.com** **jerryf@yatespetroleum.com** **rozanne@valornet.com**

#26

July 09, 2013

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 06/27/13 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 06/27/2013
 Reported: 07/09/2013
 Project Name: STATE QE 13 #1
 Project Number: NOT GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 06/26/2013
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW-1-D (H301522-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	68.0	4.00	06/28/2013	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	500	5.00	07/03/2013	ND	244	102	240	0.157		

Sample ID: MW-1-S (H301522-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	452	4.00	06/28/2013	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1290	5.00	07/03/2013	ND	244	102	240	0.157		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

September 28, 2013

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/25/13 16:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 09/25/2013
 Reported: 09/28/2013
 Project Name: STATE QE 13 #1
 Project Number: NOT GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 09/24/2013
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H302333-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	56.0	4.00	09/27/2013	ND	100	100	100	7.69		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	479	5.00	09/27/2013	ND	242	101	240	1.87		

Sample ID: MW - 1 - S (H302333-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	470	4.00	09/27/2013	ND	100	100	100	7.69		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1320	5.00	09/27/2013	ND	242	101	240	1.87		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

ANALYSIS REQUEST

(Circle or Specify Method No.)

Company Name:
RT Hicks Consultants

BILL TO Company:
Yates Petroleum

PO#
Jerry Fanning

Project Manager:

Address:
(Street, City, Zip)
105 S 4th Street - Artesia, New Mexico 88210

Address: (Street, City, Zip)

Phone #

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

Phone #

Fax #

(505) 266-5004

Project Name: **Yates Petroleum**

State: **QE 13 #1**

Project Location: **T12S-R34E-Sec13 Unit Letter O - Lea County - New Mexico**

Sample Signature: *Rozanne Johnson* (575) 831-9510

rozanne@valmet.com

LAB #

FIELD CODE

LAB USE ONLY

H302333

1 NW-1-d
2 NW-1-s

(G)rab or (C)omp

CONTAINERS

WATER

SOIL

AIR

SLUDGE

HCL (2.40ml VOA)

HNO₃

NaHSO₄

H₂SO₄

ICE (1-1 Liter HDPE)

NONE

DATE (2013)

TIME

MTBE 8021B/602

BTEX 8260

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

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Moisture Content

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, CO₃, HCO₃)

Total Dissolved Solids (160.1 / SM2540C)

Chlorides (325.3 / SM4500 B)

Turn Around Time ~ 24 Hours

Page 4 of 4

Received By: *Rozanne Johnson* Date: *9/25/2013* Time: *16:05*

Received By:

Date: Time:

Relinquished By: *Rozanne Johnson* Date: *9/25/2013* Time: *16:05*

Received By: (Laboratory Staff)

Date: Time:

Delivered By: (Circle One)

Sample Condition

Cool ☐ Yes ☒ No

Intact ☐ Yes ☒ No

CHECKED BY: *JA*

Sampler - UPS - Bus - Other

Yes ☐ No ☒

Yes ☐ No ☒

(Initials)

JA

Email Results to:

andrew@thicksconsult.com

jerryf@yatespetroleum.com

rozanne@valmet.com

REMARKS:

Yes

No

Additional Fax Number

#54

January 09, 2014

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/31/13 14:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 12/31/2013
 Reported: 01/09/2014
 Project Name: STATE QE 13 #1
 Project Number: none given
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 12/30/2013
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H303168-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	52.0	4.00	01/08/2014	ND	104	104	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	465	5.00	01/09/2014	ND	458	86.9	527	2.93		

Sample ID: MW - 1 - S (H303168-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	436	4.00	01/08/2014	ND	104	104	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1170	5.00	01/09/2014	ND	458	86.9	527	2.93		

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

101 East Marland - Hobbs, New Mexico
80240
(505) 268-2225
(505) 268-2478

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name:
RT Hicks Consultants
Project Manager:
Andrew Parker

BILL TO Company:
Yates Petroleum
Address:
105 S 4th Street ~ Artesia, New Mexico 88210
Phone:
(505) 748-1471
Fax:
(505) 748-1471

ANALYSIS REQUEST

(Circle or Specify Method No.)

Address: (Street, City, Zip)
901 Rio Grande Blvd NW Suite F-142 ~ Albuquerque, NM 87104

Address: (Street, City, Zip)
105 S 4th Street ~ Artesia, New Mexico 88210

Phone #:
(505) 268-6004
Fax #:

Project #:

State QE 13 #1

Project Name:

Project Location:
T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Yates Petroleum
Sample Signatures: Rozanne Johnson (575) 631-4310

LAB #

FIELD CODE

LAB USE ONLY
(H303408)

1 MW-1-d
2 MW-1-g

(G)rab or (C)omp

CONTAINERS

WATER

SOIL

AIR

SLUDGE

HCL (2 40ml VOA)

HNO₃

NaHSO₄

H₂SO₄

ICE (1-1 Liter HDPE)

NONE

DATE (2013)

TIME

MTBE 8021B/602

BTEX 8260

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

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Moisture Content

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, CO₃, HCO₃)

Total Dissolved Solids (160.1 / SM2540C)

Chlorides (325.3 / SM4500 B)

Turn Around Time ~ 24 Hours

Relinquished by:

Received by:

Date:

Phone Results

Yes

No

Additional Fax Number:

Relinquished by:

Received By: (Laboratory Staff)

Date:

Fax Results

Yes

No

Additional Fax Number:

Delivered By: (Circle One)

Sample Condition

Cool

Yes

No

CHECKED BY

REMARKS:

Email Results to:

Sampler - UPS - Bus - Other:

Yes

No

Yes

No

(initials)

Phone Results

Yes

No

Additional Fax Number:

#54

April 09, 2014

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 04/03/14 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	04/03/2014	Sampling Date:	03/28/2014
Reported:	04/09/2014	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - D (H400997-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	60.0	4.00	04/04/2014	ND	100	100	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	524	5.00	04/07/2014	ND	494	93.7	527	0.00		

Sample ID: MW - 1 - S (H400997-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	412	4.00	04/04/2014	ND	100	100	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1110	5.00	04/07/2014	ND	494	93.7	527	0.00		

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

[illegible]

Appendix B

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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

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	Lab Id: 299688-001 Field Id: MW-1 Depth: Matrix: WATER Sampled: Mar-13-08 12:35			
Anions by EPA 300/300.1	Extracted: Analyzed: Mar-15-08 10:29 Units/RL: mg/L RL			
Chloride	4340 50.0			
Sulfate	566 50.0			
BTEX by EPA 8021B	Extracted: Mar-19-08 10:00 Analyzed: Mar-19-08 17:26 Units/RL: 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	Extracted: Analyzed: Mar-17-08 16:36 Units/RL: mg/L RL			
Calcium	506 0.100			
Magnesium	120 0.010			
Potassium	4.93 0.500			
Sodium	1060 0.500			
TDS by SM2540C	Extracted: Analyzed: Mar-17-08 16:00 Units/RL: mg/L RL			
Total dissolved solids	6040 5.00			
Total Alkalinity by EPA 310.1	Extracted: Analyzed: Mar-17-08 14:15 Units/RL: 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.

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


Brent Barron
Odessa Laboratory Director

- 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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11381 Meadowglen Lane Suite L Houston, Tx 77082-2647
 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

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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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] = $100 \cdot A / B$

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

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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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] = $100 \cdot A / B$

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

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												
Units: mg/L												
BTEX by EPA 8021B		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
Analytes												
Benzene		ND	0.1000	0.0867	87	0.1	0.0848	85	2	70-125	25	
Toluene		ND	0.1000	0.0868	87	0.1	0.0848	85	2	70-125	25	
Ethylbenzene		ND	0.1000	0.0916	92	0.1	0.0885	89	3	71-129	25	
m,p-Xylenes		ND	0.2000	0.1841	92	0.2	0.1774	89	4	70-131	25	
o-Xylene		ND	0.1000	0.0998	100	0.1	0.0959	96	4	71-133	25	

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

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

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 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

Project ID: State QE 13 #1

QC - Sample ID: 299447-003 S

Date Prepared: 03/19/2008

Batch #: 1 Matrix: Water

Analyst: SHE

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY									
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1038	104	0.1121	112	7	70-125	25	
Toluene	ND	0.1000	0.1030	103	0.1122	112	8	70-125	25	
Ethylbenzene	ND	0.1000	0.1055	106	0.1168	116	9	71-129	25	
m,p-Xylenes	ND	0.2000	0.2079	104	0.2298	115	10	70-131	25	
o-Xylene	ND	0.1000	0.1095	110	0.1212	121	10	71-133	25	

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
See Norms, BQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery (G) = 100*(F-A)/B

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

Project ID: State QE 13 #1

Analyst: LATCOR

Matrix: Water

Date Prepared: 03/15/2008

Batch #: 1

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 CaCO ₃)	228	236	3	20	
Alkalinity, Carbonate (as CaCO ₃)	ND	ND	NC	20	
Alkalinity, Bicarbonate (as CaCO ₃)	ND	ND	NC	20	

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

XENCO Laboratories / Environmental Lab of Texas

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Project Manager: Randy Hicks

Company Name: R. T. Hicks Consultants, Ltd.

Company Address: 901 Rio Grande Blvd NW

City, State, Zip Code: Albuquerque NM 87104

Telephone No: 505-268-5004

Fax No: 505-268-0745

Sampler: Gil Van Deventer

Print

Project Name: Pride Energy Company

Project # State OE 13 #1

Project Location: T125-R34E, Section 1, Unit Letter L

COC # 50E13-1-0308

299688
LAB # (lab use only)

FIELD CODE
MW-1

Date Sampled
7-17-03

Time Sampled
12:35

No. of Containers
3

Preservative
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Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-in

Client: P.T. Hicks
Date/ Time: 3-14-08 4:15
Lab ID #: 279688
Initials: AL

Sample Receipt Checklist

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

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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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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

Analysis Requested	Lab Id: 306330-001 Field Id: MW-1 Depth: Matrix: WATER Sampled: Jun-19-08 07:20	306330-002 MW-1 Deep WATER Jun-19-08 08:05		
Alkalinity by SM2320B	Extracted: Analyzed: Jun-26-08 10:45 Units/RL: mg/L RL	Jun-26-08 10:45 mg/L RL		
Alkalinity, Total (as CaCO ₃)	236 4.00	180 4.00		
Alkalinity, Bicarbonate (as CaCO ₃)	236 4.00	180 4.00		
Alkalinity, Carbonate (as CaCO ₃)	ND 4.00	ND 4.00		
Inorganic Anions by EPA 300	Extracted: Analyzed: Jun-23-08 08:50 Units/RL: mg/L RL	Jun-23-08 08:50 mg/L RL		
Chloride	1760 100	66.7 12.5		
Sulfate	348 100	132 12.5		
Metals per ICP by SW846 6010B	Extracted: Analyzed: Jun-23-08 11:59 Units/RL: mg/L RL	Jun-23-08 11:59 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	Extracted: Analyzed: Jun-23-08 16:30 Units/RL: mg/L RL	Jun-23-08 16:30 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

- 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

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 CaCO ₃)	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.

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

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

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

Project ID: State QE 13 # 1

Analyst: WRU

Matrix: Water

Date Prepared: 06/26/2008

Batch #: 1

SAMPLE / SAMPLE DUPLICATE RECOVERY

Alkalinity by SM2320B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Alkalinity, Bicarbonate (as CaCO ₃)	190	180	20	20	
Alkalinity, Carbonate (as CaCO ₃)	ND	ND	20	20	
Alkalinity, Total (as CaCO ₃)	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 $RPD = 200 \cdot \frac{|(B-A)|}{(B+A)}$
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>6.0</u>	<u>°C</u>
#2	Shipping container in good condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#3	Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Present</u>	
#5	Chain of Custody present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>ID written on Cont/ Lid</u>	
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Applicable</u>	
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#11	Containers supplied by ELOIT?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>See Below</u>	
#13	Samples properly preserved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>See Below</u>	
#14	Sample bottles intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>See Below</u>	
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>See Below</u>	
#19	Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Applicable</u>	

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



PHONE (575) 393-2326 • 101 E. MARLAND • HCBBS, 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 H15916-1	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	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

09/17/08
Date



CARDINAL LABORATORIES

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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: H15916-1
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	Method	True Value		
	H15916-1	Blank	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


Chemist


Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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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/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



ARDINAL LABORATORIES

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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

Date

09/17/08



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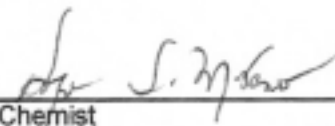
ANALYTICAL RESULTS FOR
RT HICKS CONSULTANTS
ATTN: ANDREW PARKER
901 RIO GRANDE BLVD. NW, SUITE F-142
ALBUQUERQUE, NM 87104

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
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Chemist


09-16-08
Date

Cardinal Laboratories, Inc.




101 East Marland - Hobbs, New
Mexico 88240
Tel: (575) 393-2320
Fax: (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name: RT Hicks Consultants	BILL TO Company: Pride Energy Company / Matt Pride	PO#
Project Manager: Andrew Parker	Address: P. O. Box 710950 ~ Tulsa, OK 74170-1950	(Street, City, Zip)
Address: 901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104	Phone#: (918) 524-9200	Phone#: (918) 524-9292
Phone #: (505) 266-5004	Fax #:	
Project #: State QE 13 #1	Project Name: Pride Energy Company	
Project Location: T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico	Sampler Signature:  Suzanne Johnson (875) 631-9310 jozanne@valornet.com	

[illegible]

Relinquished by:  Rozanne Johnson	Date: 9-11-2008 Time: 3:40	Received by:  Matty Labut	Date: 9/11/08 Time: 3:40
Relinquished by:	Date: _____ Time: _____	Received By: (Laboratory Staff)	Date: _____ Time: _____
Delivered By: (Circle One)	Sample Condition		
 Sampler - UPS - Bus - Other:	Yes	Good	Intact
	No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	CHECKED BY:  (Initials)		



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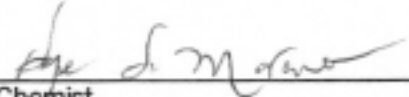
**ANALYTICAL RESULTS FOR
RT HICKS CONSULTANTS
ATTN: ANDREW PARKER
901 RIO GRANDE BLVD. NW, SUITE F-142
ALBUQUERQUE, NM 87104**

Receiving Date: 12/10/08
Reporting Date: 12/11/08
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: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: HM/TR

LAB NO.	SAMPLE ID	TDS (mg/L)	CF (mg/L)
Analysis Date:		12/10/08	12/11/08
H16487-1	MW-1-d	515	60
H16487-2	MW-1-s	3,510	1,500
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		NR	< 0.1

METHOD: EPA 600/4-79-020	160.1	SM4500-CI-B
--------------------------	-------	-------------


Chemist

12-17-08
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: 12/10/08
Reporting Date: 12/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM
Lab Number: H16487-1
Sample ID: MW-1-D

Analysis Date: 12/16/08
Sampling Date: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H16487-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.055	110	0.050
Toluene	<0.001	<0.001	0.056	112	0.050
Ethylbenzene	<0.001	<0.001	0.056	112	0.050
m,p-Xylene	<0.002	<0.002	0.119	119	0.100
o-Xylene	<0.001	<0.001	0.055	110	0.050


% RECOVERY

Dibromofluoromethane	103
Fluorobenzene	108
Toluene-d8	99.2
4-Bromofluorobenzene	84.7

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: 12/10/08
Reporting Date: 12/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM
Lab Number: H16487-1
Sample ID: MW-1-D

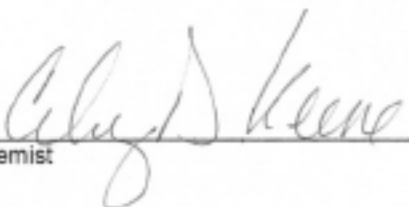
Analysis Date: 12/16/08
Sampling Date: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H16487-1	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.059	118	0.050

% RECOVERY

Dibromofluoromethane	103
Fluorobenzene	108
Toluene-d8	99.2
4-Bromofluorobenzene	84.7

METHODS: EPA SW-846 8260



Chemist



Date



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

Receiving Date: 12/10/08
Reporting Date: 12/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O - LEA CO., NM
Lab Number: H16487-2
Sample ID: MW-1-S

Analysis Date: 12/16/08
Sampling Date: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

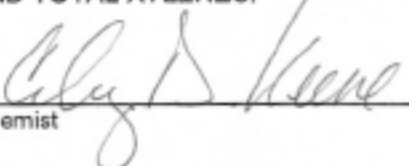
VOLATILES (mg/L)	Sample Result H16487-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.055	110	0.050
Toluene	<0.001	<0.001	0.056	112	0.050
Ethylbenzene	<0.001	<0.001	0.056	112	0.050
m,p-Xylene	<0.002	<0.002	0.119	119	0.100
o-Xylene	<0.001	<0.001	0.055	110	0.050

% RECOVERY

Dibromofluoromethane	115
Fluorobenzene	115
Toluene-d8	96.0
4-Bromofluorobenzene	69.0

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: 12/10/08
Reporting Date: 12/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM
Lab Number: H16487-2
Sample ID: MW-1-S

Analysis Date: 12/16/08
Sampling Date: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

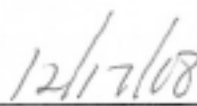
	Sample Result	Method		True Value
VOLATILES (mg/L)	H16487-2	Blank	QC %Recov.	QC
Naphthalene	<0.001	<0.001	0.059	118 0.050

% RECOVERY	
Dibromofluoromethane	116
Fluorobenzene	115
Toluene-d8	96.0
4-Bromofluorobenzene	69.0

METHODS: EPA SW-846 8260



Chemist



Date

101 East Mainland - Hobbs, New Mexico 88340
Tel (575) 395-2328
Fax (575) 393-2476

Cardinal Laboratories, Inc.

Company Name:

RT Hicks Consultants

Project Manager:

Andrew Parker

Address: (Street, City, Zip)

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

Phone #:

(505) 266-5004

Project #:

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Project Name: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Company Name:

RT Hicks Consultants

Project Manager:

Andrew Parker

Address: (Street, City, Zip)

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

Phone #: (505) 266-5004

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

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Phone #: (918) 524-9200

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Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Company Name:

RT Hicks Consultants

Project Manager:

Andrew Parker

Address: (Street, City, Zip)

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

Phone #: (505) 266-5004

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

Project Name:

Pride Energy Company

State QE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sampler Signature: *Rozanne Johnson* (575) 631-2310

Address: (Street, City, Zip)

P. O. Box 710950 ~ Tulsa, OK 74170-1950

Phone #: (918) 524-9200

Fax #: (918) 524-9292

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

Phone Results

Fax Results

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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: 03/19/09

Reporting Date: 03/23/09

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: 03/18/08

Sample Type: WATER


Sample Condition: COOL & INTACT

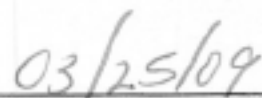
Sample Received By: ML

Analyzed By: HM/TR

LAB NO.	SAMPLE ID	TDS (mg/L)	Cl ⁻ (mg/L)
Analysis Date:		03/20/09	03/20/09
H17096-1	MW-1-d	498	60
H17096-2	MW-1-s	3,360	1,380
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		0.6	< 0.1

METHOD: EPA 600/4-79-020	160.1	SM4500-Cl-B
--------------------------	-------	-------------


Chemist


Date



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

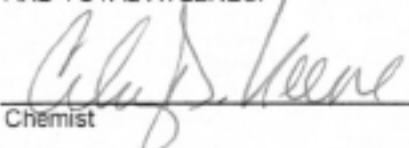
Receiving Date: 03/19/09
Reporting Date: 03/25/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H17096-1

Analysis Date: 03/24/09
Sampling Date: 03/18/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H17096-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.023	92.0	0.025
Toluene	<0.001	<0.001	0.024	96.0	0.025
Ethylbenzene	<0.001	<0.001	0.027	108	0.025
m+p - Xylene	<0.002	<0.002	0.058	116	0.050
o-Xylene	<0.001	<0.001	0.024	96.0	0.025

% Recovery	
Dibromofluoromethane	83.5
Fluorobenzene	84.8
Toluene-d8	106
4-Bromofluorobenzene	81.9

METHODS: EPA SW-846-8260.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Chemist

03/25/09
Date



CARDINAL LABORATORIES

PHONE (575) 393-2328 • 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: 03/19/09
Reporting Date: 03/25/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H17096-1

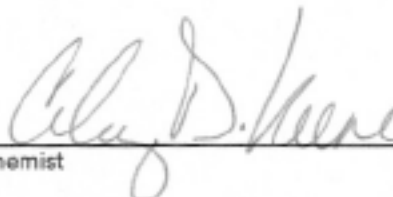
Analysis Date: 03/24/09
Sampling Date: 03/18/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H17096-1	Method Blank	QC	%Recov.	True Value QC
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Naphthalene	<0.001	<0.001	0.027	108	0.025
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% Recovery	
Dibromofluoromethane	83.5
Fluorobenzene	84.8
Toluene-d8	106
4-Bromofluorobenzene	81.9

METHODS: EPA SW-846-8260.



Chemist

03/25/09

Date



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

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

Receiving Date: 03/19/09
Reporting Date: 03/25/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H17096-2

Analysis Date: 03/24/09
Sampling Date: 03/18/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

BTEX - 8260 (mg/L)

Sample Result
H17098-2

Method
Blank

QC %Recov

True Value
QC

Benzene	<0.001	<0.001	0.023	92.0	0.025
Toluene	<0.001	<0.001	0.024	96.0	0.025
Ethylbenzene	<0.001	<0.001	0.027	108	0.025
m+p - Xylene	<0.002	<0.002	0.058	116	0.050
o-Xylene	<0.001	<0.001	0.024	96.0	0.025

% Recovery

Dibromofluoromethane	89.3
Fluorobenzene	85.1
Toluene-d8	102
4-Bromofluorobenzene	89.8

METHODS: EPA SW-846-8260.

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

Chemist

Date _____



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: 03/19/09
Reporting Date: 03/25/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER D
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H17096-2

Analysis Date: 03/24/09
Sampling Date: 03/18/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

BTEX - 8260 (mg/L)	Sample Result H17096-2	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.027	108	0.025

% Recovery	
Dibromofluoromethane	99.0
Fluorobenzene	85.1
Toluene-d8	102
4-Bromofluorobenzene	89.8

METHODS: EPA SW-846-8260.


Chemist


Date

Cardinal Laboratories, Inc.

101 East Maryland - Hobbs, New
Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Company Name:	RT Hicks Consultants	BILL TO	Company:	PO#
Project Manager:	Andrew Parker	Pride Energy Company / Matt Pride		
Address:	(Street, City, Zip)	Address:		
901 Rio Grande Blvd NW Suite F-142 ~ Albuquerque, NM 87104		P. O. Box 710950 ~ Tulsa, OK 74170-1150		
Phone #:		Phone#:		
		(918) 524-9200		
		(918) 524-9292		

Project #:	State QE 13 #1	Project Name:	Pride Energy Company
Project Location:	T12S-R34E-Sec13 Unit Letter Q ~ Lea County - New Mexico	Sampler Signature:	Rozanne Johnson (575)631-9310 rozanne@valmet.com

[illegible]

Relinquished by: <u>Rozanne Johnson</u>	Date: <u>3/19/09</u>	Time: <u>7:30</u>	Received by: <u>Cathy Watkins</u>	Date: <u>3/19/09</u>	Time: <u>7:31</u>
Relinquished by: <u>Cathy Watkins</u>	Date: <u>3/19/09</u>	Time: <u>14:35</u>	Received By: (Laboratory Staff) <u>Mike LaBont</u>	Date: <u>3/19/09</u>	Time: <u>2:30</u>
Delivered By: (Circle One)			CHECKED BY:		
Sampler - UPS - Bus - Other: <u> </u>			Sample Condition Yes <input type="checkbox"/> No <input type="checkbox"/> Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/>		



ARDINAL LABORATORIES

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

July 6, 2009

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H17660, received by the laboratory on 06/18/09 at 1:55 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



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: 06/18/09

Reporting Date: 06/22/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O~
LEA CO., NM

Sampling Date: 06/17/09

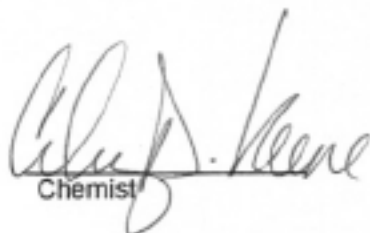
Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: AB/HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	TDS (mg/L)
Analysis Date:		06/19/09	06/19/09
H17660-1	MW-1-D	64	490
H17660-2	MW-1-S	1,120	2,860
Quality Control		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Percent Difference		<0.1	0.3
METHOD: Standard Methods, EPA		4500-Cl ⁻ B	160.1
Not accredited for chloride and TDS.			


Chemist

Date

07/06/09

H17660 RT HICKS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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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: 06/18/09
Reporting Date: 07/02/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H17660-1

Analysis Date: 06/30/09
Sampling Date: 06/17/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: SS


BTEX 8260 (mg/L)	Sample Result H17660-1	Method Blank	QC	%Recov.	True Value QC
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Benzene	<0.001	<0.001	0.019	95.0	0.020
Toluene	<0.001	<0.001	0.018	90.0	0.020
Ethylbenzene	<0.001	<0.001	0.022	112	0.020
m+p Xylene	<0.002	<0.002	0.046	112	0.040
o-Xylene	<0.001	<0.001	0.023	115	0.020

% Recovery

Dibromofluoromethane	102
Toluene-d8	100
4-Bromofluorobenzene	91.5

METHODS: EPA SW-846-8260.
Subcontracted to SunStar Laboratories, Inc.


Chemist

07/06/09
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

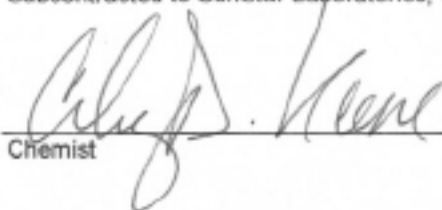
Receiving Date: 06/18/09
Reporting Date: 07/02/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H17660-1

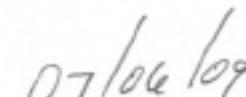
Analysis Date: 06/30/09
Sampling Date: 06/17/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: SS

BTEX 8260 (mg/L)	Sample Result H17660-1	Method Blank	QC %Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.029 144	0.020

% Recovery	
Dibromofluoromethane	102
Toluene-d8	100
4-Bromofluorobenzene	91.5

METHODS: EPA SW-846-8260.
Subcontracted to SunStar Laboratories, Inc.


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: 06/18/09
Reporting Date: 07/02/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H17660-2

Analysis Date: 06/30/09
Sampling Date: 06/17/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: SS

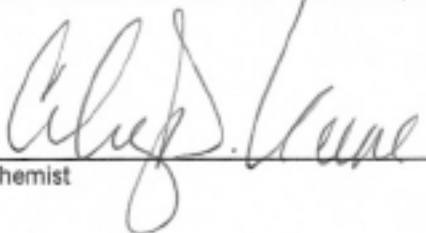
BTEX - 8260 (mg/L)	Sample Result H17660-2	Method Blank	QC	%Recov.	True Value QC
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Benzene	<0.001	<0.001	0.019	95.0	0.020
Toluene	<0.001	<0.001	0.018	90.0	0.020
Ethylbenzene	<0.001	<0.001	0.022	112	0.020
m+p - Xylene	<0.002	<0.002	0.045	113	0.040
o-Xylene	<0.001	<0.001	0.023	115	0.020

% Recovery

Dibromofluoromethane	99.1
Toluene-d8	101
4-Bromofluorobenzene	106

METHODS: EPA SW-846-8260.
Subcontracted to SunStar Laboratories, Inc.


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: 06/18/09
Reporting Date: 07/02/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H17660-2

Analysis Date: 06/30/09
Sampling Date: 06/17/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: SS

BTEX - 8260 (mg/L)	Sample Result H17660-2	Method Blank	QC %Recov.	True Value QC
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Naphthalene	<0.001	<0.001	0.029 144	0.020
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% Recovery

Dibromofluoromethane	99.1
Toluene-d8	101
4-Bromofluorobenzene	106

METHODS: EPA SW-846-8260.
Subcontracted to SunStar Laboratories, Inc.


Chemist


Date



ARDINAL LABORATORIES

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

October 5, 2009

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H18305, received by the laboratory on 09/24/09 at 11:21 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

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

 Receiving Date: 09/24/09
 Reporting Date: 10/01/09
 Project Number: STATE QE 13#1
 Project Name: PRIDE ENERGY COMPANY
 Project Location: T12S-R34E-SEC13 UNIT LETTER O
 LEA COUNTY, NM
 Sample ID: MW-1-D
 Lab Number: H18305-1

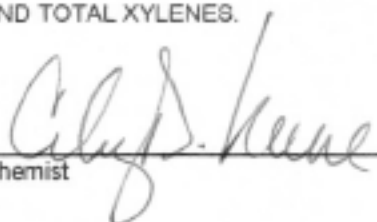
 Analysis Date: 09/30/09
 Sampling Date: 09/22/09
 Sample Type: WATER
 Sample Condition: COOL & INTACT @ 1.5°C
 Sample Received By: ML
 Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18305-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.010	100	0.010
Toluene	<0.001	<0.001	0.011	110	0.010
Ethylbenzene	<0.001	<0.001	0.010	100	0.010
m+p - Xylene	<0.002	<0.002	0.022	109	0.020
o-Xylene	<0.001	<0.001	0.011	106	0.010

% Recovery	
Dibromofluoromethane	88.5
Toluene-d8	104
4-Bromofluorobenzene	113

METHODS: EPA SW-846-8260.

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


 Chemist

 10/05/09
 Date



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

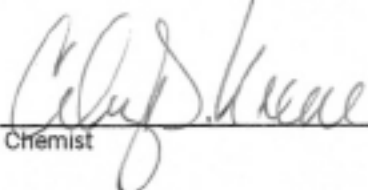
Receiving Date: 09/24/09
Reporting Date: 10/01/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H18305-1

Analysis Date: 09/30/09
Sampling Date: 09/22/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: ML
Analyzed By: ZL

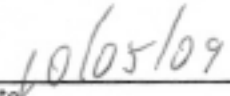
BTEX 8260 (mg/L)	Sample Result H18305-1	Method Blank	QC		True Value QC
			QC	%Recov.	
Naphthalene	<0.001	<0.001	0.020	98.7	0.020

% Recovery	
Dibromofluoromethane	88.5
Toluene d8	104
4-Bromofluorobenzene	113

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.



Chemist



Date



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

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

Receiving Date: 09/24/09
Reporting Date: 10/01/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H18305-2

Analysis Date: 09/30/09
Sampling Date: 09/22/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: ML
Analyzed By: ZL

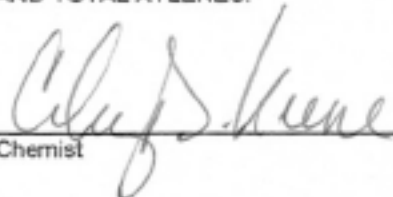
BTEX 8260 (mg/L)	Sample Result H18305-2	Method Blank	QC	%Recov.	True Value QC
------------------	---------------------------	-----------------	----	---------	------------------

Benzene	<0.001	<0.001	0.010	100	0.010
Toluene	<0.001	<0.001	0.011	110	0.010
Ethylbenzene	<0.001	<0.001	0.010	100	0.010
m+p - Xylene	<0.002	<0.002	0.022	109	0.020
o-Xylene	<0.001	<0.001	0.011	106	0.010

% Recovery

Dibromofluoromethane	90.6
Toluene-d8	107
4-Bromofluorobenzene	107

METHODS: EPA SW-846-8260.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.



Chemist

10/05/09

Date

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

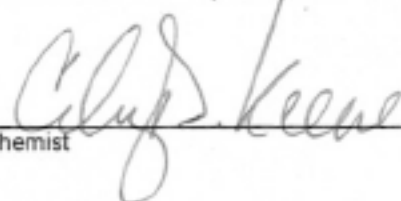
 Receiving Date: 09/24/09
 Reporting Date: 10/01/09
 Project Number: STATE QE 13#1
 Project Name: PRIDE ENERGY COMPANY
 Project Location: T12S-R34E-SEC13 UNIT LETTER O
 LEA COUNTY, NM
 Sample ID: MW-1-S
 Lab Number: H18305-2


 Analysis Date: 09/30/09
 Sampling Date: 09/22/09
 Sample Type: WATER
 Sample Condition: COOL & INTACT @ 1.5°C
 Sample Received By: ML
 Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18305-2	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.020	98.7	0.020

	% Recovery
Dibromofluoromethane	90.6
Toluene-d8	107
4-Bromofluorobenzene	107

 METHODS: EPA SW-846-8260.
 Not accredited for Naphthalene.


 Chemist


 Date



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: 09/24/09

Reporting Date: 09/26/09

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: 09/22/08

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: HM

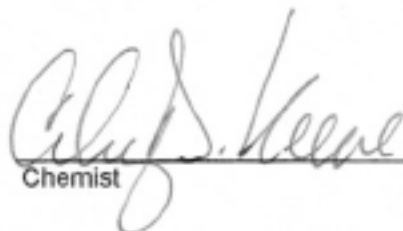
LAB NO.	SAMPLE ID	TDS (mg/L)	Cl (mg/L)
Analysis Date:		09/25/09	09/25/09
H18305-1	MW-1-d	447	64
H18305-2	MW-1-s	1,760	570
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		2.4	< 0.1

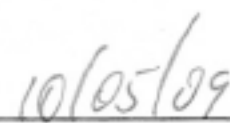
METHOD: EPA 600/4-79-020

160.1

SM4500-Cl-B

Not accredited for Chloride and TDS.


Cheryl S. Keene
Chemist


Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



ARDINAL LABORATORIES

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

December 22, 2009

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H18888, received by the laboratory on 12/16/09 at 9:00 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



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: 12/16/09

Reporting Date: 12/17/09

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: 12/11/08

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: CK

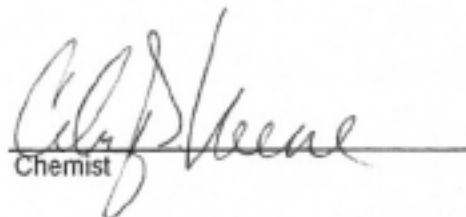
Analyzed By: HM

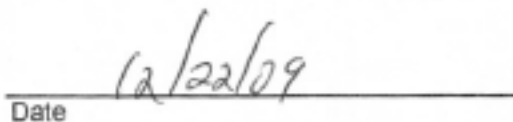
LAB NO.	SAMPLE ID	TDS (mg/L)	Cl ⁻ (mg/L)
Analysis Date:		12/16/09	12/16/09
H18888-1	MW-1-d	505	60
H18888-2	MW-1-s	2,200	770
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		1.8	< 0.1

METHOD: EPA 600/4-79-020

160.1 SM4500-Cl-B

Not accredited for TDS and Chloride.


Chemist


Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or subcontractors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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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: 12/16/09
Reporting Date: 12/18/09
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY, NM
Sample ID: MW-1D
Lab Number: H18888-1

Analysis Date: 12/16/09
Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @1.5°C
Sample Received By: CK
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18888-1	Method Blank	QC	%Recov.	True Value QC
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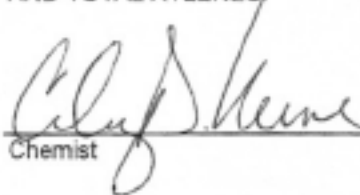
Benzene	<0.001	<0.001	0.021	105	0.020
Toluene	<0.001	<0.001	0.021	105	0.020
Ethylbenzene	<0.001	<0.001	0.022	110	0.020
m+p - Xylene	<0.002	<0.002	0.042	105	0.040
o-Xylene	<0.001	<0.001	0.020	100	0.020

% Recovery


Dibromofluoromethane	99.7
Toluene-d8	96.2
4-Bromofluorobenzene	94.0

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION 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: 12/16/09
Reporting Date: 12/18/09
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY, NM
Sample ID: MW-1D
Lab Number: H18888-1

Analysis Date: 12/16/09
Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @1.5°C
Sample Received By: CK
Analyzed By: ZL

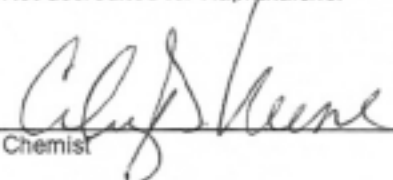
BTEX 8260 (mg/L)	Sample Result H18888-1	Method Blank	QC %Recov.	True Value QC
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Naphthalene	<0.001	<0.001	0.021	105	0.020
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% Recovery

Dibromofluoromethane	99.7
Toluene-d8	96.2
4-Bromofluorobenzene	94.0

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.


Chemist


Date 12/22/09



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

Receiving Date: 12/16/09
Reporting Date: 12/18/09
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY, NM
Sample ID: MW-1S
Lab Number: H18888-2

Analysis Date: 12/16/09
Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @1.5°C
Sample Received By: CK
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18888-2	Method Blank	QC %Recov.	True Value QC
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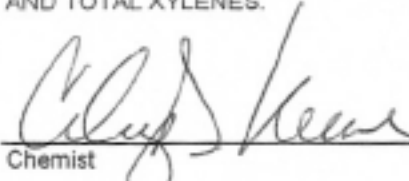
Benzene	<0.001	<0.001	0.021	105	0.020
Toluene	<0.001	<0.001	0.021	105	0.020
Ethylbenzene	<0.001	<0.001	0.022	110	0.020
m+p - Xylene	<0.002	<0.002	0.042	105	0.040
o-Xylene	<0.001	<0.001	0.020	100	0.020


% Recovery

Dibromofluoromethane	120
Toluene-d8	100
4-Bromofluorobenzene	100

METHODS: EPA 8W-845-8260.

TEXAS NELAP ACCREDITATION 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: 12/16/09
Reporting Date: 12/18/09
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY, NM
Sample ID: MW-1S
Lab Number: H18888-2

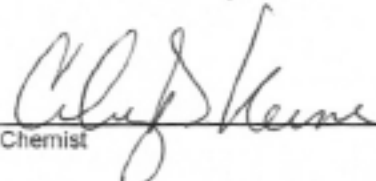
Analysis Date: 12/16/09
Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @1.5°C
Sample Received By: CK
Analyzed By: ZL


BTEX 8260 (mg/L)	Sample Result H18888-2	Method Blank	QC	%Recov.	True Value QC
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Naphthalene	<0.001	<0.001	0.021	105	0.020
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% Recovery	
Dibromofluoromethane	120
Toluene-d8	100
4-Bromofluorobenzene	100

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.


Chemist


Date

April 1, 2010

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H19560, received by the laboratory on 03/29/10 at 10:20 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,


Celey D. Keene
Laboratory Director



CARDINAL LABORATORIES

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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: 03/29/10

Reporting Date: 03/30/10

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: 03/25/10

Sample Type: WATER

Sample Condition: COOL & INTACT @ -1.0°C

Sample Received By: JH

Analyzed By: HM


LAB NO.	SAMPLE ID	TDS (mg/L)	Cl ⁻ (mg/L)
Analysis Date:		03/29/10	03/29/10
H19560-1	MW-1-d	469	60
H19560-2	MW-1-s	1,760	530
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		6.2	< 0.1

METHOD: EPA 600/4-79-020

160.1

SM4500-Cl-B

Not accredited for TDS and Chloride.


Cheryl Heene
Chemist


Date

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Analysis Date: 03/30/10
Sampling Date: 03/25/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ -1°C
Sample Received By: JH
Analyzed By: ZL

True Value
QC

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

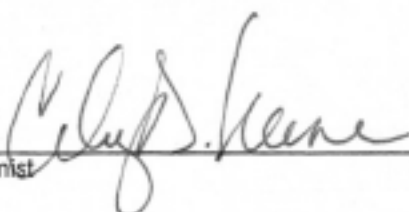
 Receiving Date: 03/29/10
 Reporting Date: 03/31/10
 Project Number: STATE QE 13 #1
 Project Name: YATES PETROLEUM
 Project Location: T12S-R34E-SEC13 UNIT LETTER O
 LEA COUNTY, NM
 Sample ID: MW-1-D
 Lab Number: H19560-1

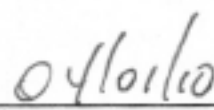
 Analysis Date: 03/30/10
 Sampling Date: 03/25/10
 Sample Type: WATER
 Sample Condition: COOL & INTACT @ -1°C
 Sample Received By: JH
 Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H19560-1	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.010	101	0.010

% Recovery	
Dibromofluoromethane	111
Toluene-d8	113
4-Bromofluorobenzene	95.6

 METHODS: EPA SW-846-8260.
 Not accredited for Naphthalene.


 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: 03/29/10
Reporting Date: 03/31/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H19560-2

Analysis Date: 03/30/10
Sampling Date: 03/25/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ -1°C
Sample Received By: JH
Analyzed By: ZL

BTX 8260 (mg/L)	Sample Result H19560-2	Method Blank	QC		True Value QC
			QC	%Recov.	
Benzene	<0.001	<0.001	0.012	118	0.010
Toluene	<0.001	<0.001	0.011	109	0.010
Ethylbenzene	<0.001	<0.001	0.010	99.0	0.010
m+p - Xylene	<0.002	<0.002	0.021	107	0.020
o-Xylene	<0.001	<0.001	0.011	113	0.010

% Recovery

Dibromofluoromethane	117
Toluene-d8	112
4-Bromofluorobenzene	101

METHODS: EPA SW-846-8260.

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



Chemist

04/01/10

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: 03/29/10
Reporting Date: 03/31/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H19560-2

Analysis Date: 03/30/10
Sampling Date: 03/25/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ -1°C
Sample Received By: JH
Analyzed By: ZL

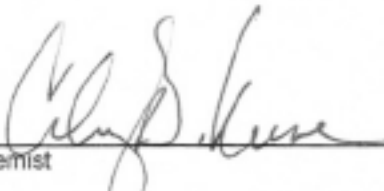
BTEX 8260 (mg/L)	Sample Result H19560-2	Method Blank	QC	%Recov.	True Value QC
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Naphthalene	<0.001	<0.001	0.010	101	0.010
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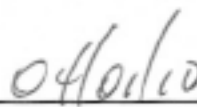
% Recovery

Dibromofluoromethane	117
Toluene-d8	112
4-Bromofluorobenzene	101

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.



Chemist



Date



ARDINAL LABORATORIES

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June 24, 2010

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H20153, received by the laboratory on 06/18/10 at 10:02 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

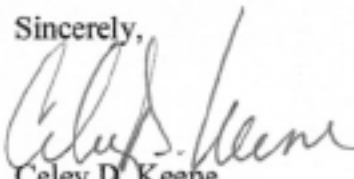
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,



Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



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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: 06/18/10
Reporting Date: 06/22/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H20153-1

Analysis Date: 06/21/10
Sampling Date: 06/16/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: HM
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H20153-1	Method Blank	QC %Recov.	True Value QC
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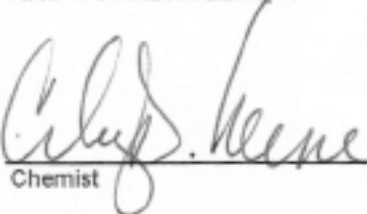
Benzene	<0.001	<0.001	0.011	110	0.010
Toluene	<0.001	<0.001	0.010	100	0.010
Ethylbenzene	<0.001	<0.001	0.010	100.0	0.010
m+p - Xylene	<0.002	<0.002	0.023	113	0.020
o-Xylene	<0.001	<0.001	0.011	110	0.010

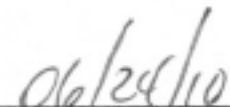
% Recovery

Dibromofluoromethane	90.9
Toluene-d8	101
4-Bromofluorobenzene	104

METHODS: EPA 8W-846-8260.

TEXAS NELAP ACCREDITATION 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: 06/18/10
Reporting Date: 06/22/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H20153-1

Analysis Date: 06/21/10
Sampling Date: 06/16/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: HM
Analyzed By: ZL

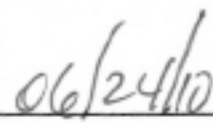
BTEX 8260 (mg/L)	Sample Result	Method	True Value	
	H20153-1	Blank	QC %Recov.	QC
Naphthalene	<0.001	<0.001	0.010	100

% Recovery	
Dibromofluoromethane	90.9
Toluene-d8	101
4-Bromofluorobenzene	104

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.



Chemist



Date



ARDINAL LABORATORIES

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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: 06/18/10
Reporting Date: 06/22/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H20153-2

Analysis Date: 06/21/10
Sampling Date: 06/16/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: HM
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result	Method	QC	%Recov.	True Value
	H20153-2	Blank			QC

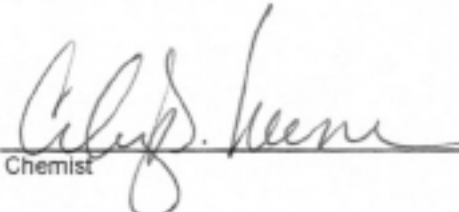
Benzene	<0.001	<0.001	0.011	110	0.010
Toluene	<0.001	<0.001	0.010	100	0.010
Ethylbenzene	<0.001	<0.001	0.010	100.0	0.010
m+p - Xylene	<0.002	<0.002	0.023	113	0.020
o-Xylene	<0.001	<0.001	0.011	110	0.010

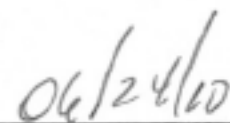
% Recovery

Dibromofluoromethane	108
Toluene-d8	112
4-Bromofluorobenzene	100

METHODS: EPA SW-846-8260.

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


Chemist


Date

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

 Receiving Date: 06/18/10
 Reporting Date: 06/22/10
 Project Number: STATE QE 13 #1
 Project Name: YATES PETROLEUM
 Project Location: T12S-R34E-SEC13 UNIT LETTER O
 LEA COUNTY, NM
 Sample ID: MW-1-S
 Lab Number: H20153-2

 Analysis Date: 06/21/10
 Sampling Date: 06/16/10
 Sample Type: WATER
 Sample Condition: COOL & INTACT @ 1.5°C
 Sample Received By: HM
 Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H20153-2	Method Blank	QC %Recov.	True Value QC
------------------	---------------------------	-----------------	------------	------------------

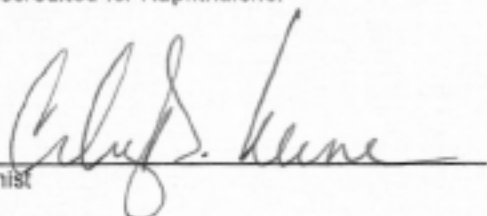
Naphthalene	<0.001	<0.001	0.010	100	0.010
-------------	--------	--------	-------	-----	-------

% Recovery

Dibromofluoromethane	108
Toluene-d8	112
4-Bromofluorobenzene	100

 METHODS: EPA SW-846-8260.
 Not accredited for Naphthalene.

Chemist



Date





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: 06/18/10

Reporting Date: 06/22/10

Project Number: STATE QE 13 #1

Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY - NEW MEXICO

Sampling Date: 06/16/10

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: HM

LAB NO.	SAMPLE ID	TDS (mg/L)	Cl ⁻ (mg/L)
Analysis Date:		06/21/10	06/22/10
H20153-1	MW-1-d	493	64
H20153-2	MW-1-s	1,430	400
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		9.3	< 0.1

METHOD: EPA 800/4-79-020

160.1

SM4500-Cl-B

Not accredited for TDS and Chloride.


Chemist

Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Cardinal Laboratories, Inc.

101 East Maryland - Hobbs, New
Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Company Name: RT Hicks Consultants	BILL TO	Company:	PO#
Project Manager: Andrew Parker	Address:	Yates Petroleum	Jerry Fanning
	(Street, City, Zip)	Address:	(Street, City, Zip)
	901 Rio Grande Blvd NW Suite F-142 ~ Albuquerque, NM 87104	105 S 4th Street ~ Artesia, New Mexico 88210	
Phone #:		Phone#:	Fac#:
(505) 266-5004	Fax #:	(575) 748-1471	
Project #:	Project Name:		
State QE 13 #1	Yates Petroleum		
Project Location:	Sampler Signature:	Rozanne Johnson (375) 531-5310	
T12S-R34E-Sec13 Unit Letter O ~ Lea County ~ New Mexico		rozanne@valomet.com	

LAB # (LAB USE ONLY)	FIELD CODE	(3) Lab or (C) Comp	# CONTAINERS	MATRIX					PRESERVATIVE METHOD	SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCL (2.40m VOA)				
4420153-1 -2	MW-1-d	G	3	X					HCL (2.40m VOA)	2	6-16 8:10	TIME
	MW-1-s	G	3	X					HCL (2.40m VOA)	2	6-16 9:00	DATE (2010)
									HNO ₃			
									NaHSO ₄			
									H ₂ SO ₄	1		
									ICE (1-11um HDPE)	1	6-16 8:10	DATE (2010)
									NONE			TIME

Relinquished by: Rozanne Johnson	Date: 6-18-10	Time: 8:45	Received by: Grandblum	Date: 6-18-10	Time: 8:46
Relinquished by: Grandblum	Date: 6-18-10	Time: 9:50	Received By: (Laboratory Staff) J. Moore	Date: 6-18-10	Time: 10:02
Delivered By: (Circle One)			Sample Condition		
			Coil	Intact	
			Yes	No	
			1.58		
Sampler - UPS - Bus - Other:			CHECKED BY: (Initials) H		

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

One Results		Additional Fax Number:	
Results	Yes	No	No
BTEX 8260	X	X	
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/824			
GC/MS Semi. Vol. 8270C/825			
PCBs 8082/608			
Pesticides 8081A/608			
BOD, TSS, pH			
Moisture Content			
Cations (Ca, Mg, Na, K)			
Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	X		
Total Dissolved Solids (160.1 / SM2540C)	X		
Chlorides (325.3 / SM4500 B)	X		
Turn Around Time ~ 24 Hours			

REMARKS:

Email Results to:

andrew@thicksconsult.com
jerryf@yatespetroleum.com
rozanne@valornet.com

September 29, 2010

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/17/10 10:36.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: ?

Received:	09/17/2010	Sampling Date:	09/14/2010
Reported:	09/29/2010	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - d (H020879-01)

BTEX + Naphthalene 8260B			mg/L							Analyzed By: CMS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.001	0.001	09/27/2010	ND	0.018	90.6	0.0200	8.05			
Toluene*	<0.001	0.001	09/27/2010	ND	0.020	99.5	0.0200	10.3			
Ethylbenzene*	<0.001	0.001	09/27/2010	ND	0.017	86.7	0.0200	8.45			
m+p - Xylene	<0.002	0.002	09/27/2010	ND	0.034	86.0	0.0400	8.70			
o-Xylene	<0.001	0.001	09/27/2010	ND	0.018	87.6	0.0200	8.68			
Total Xylenes*	<0.003	0.003	09/27/2010	ND	0.052	86.6	0.0600	8.69			

Surrogate: Dibromofluoromethane 83.0 % 80-120

Surrogate: Toluene-d8 70.4 % 80-120

Surrogate: 4-Bromofluorobenzene 73.4 % 80-120

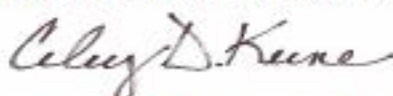
Chloride, SM4500Cl-B		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	09/20/2010	ND	112	112	100	3.64	

TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	475	5.00	09/20/2010	ND				0.978	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: ?

Received:	09/17/2010	Sampling Date:	09/14/2010
Reported:	09/29/2010	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - s (H020879-02)

BTEX + Naphthalene 8260B			mg/L							Analyzed By: CMS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.001	0.001	09/27/2010	ND	0.018	90.6	0.0200	8.05			
Toluene*	<0.001	0.001	09/27/2010	ND	0.020	99.5	0.0200	10.3			
Ethylbenzene*	<0.001	0.001	09/27/2010	ND	0.017	86.7	0.0200	8.45			
m+p - Xylene	<0.002	0.002	09/27/2010	ND	0.034	86.0	0.0400	8.70			
o-Xylene	<0.001	0.001	09/27/2010	ND	0.018	87.6	0.0200	8.68			
Total Xylenes*	<0.003	0.003	09/27/2010	ND	0.052	86.6	0.0600	8.69			

Surrogate: Dibromofluoromethane 92.6 % 80-120

Surrogate: Toluene-d8 91.6 % 80-120

Surrogate: 4-Bromofluorobenzene 93.0 % 80-120

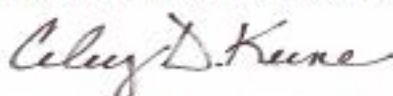
Chloride, SM4500Cl-B			mg/L							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	324	4.00	09/20/2010	ND	112	112	100	3.64			

TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1180	5.00	09/20/2010	ND				0.978	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

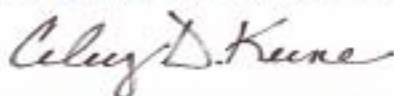
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mainland - Hobbs, New
Mexico 88240
Tel (505) 293-2328
Fax (505) 293-2478

LAB Order ID #

Company Name: RT Hicks Consultants		BILL TO Company: Yates Petroleum	PO# Jerry Fanning (Street, City, Zip)
Project Manager: Andrew Parker		Address: 105 S 4th Street ~ Artesia, New Mexico 88210	
Address: (Street, City, Zip) 901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104		Phone# (575) 748-1471	Fax#
Phone #: (505) 266-5004		Fax #:	
Project #: State QE 13 #1		Project Name: Yates Petroleum	
Project Location: T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico		Sampler Signature: Rocanne Johnson (575) 531-8310 (Signature)	

[illegible]

Relinquished By: <u>Rozanne Johnson</u>	Date: <u>9-17-10</u>	Time: <u>7:52</u>	Received By: <u>David Johnson</u>	Date: <u>9-17-10</u>	Time: <u>7:53</u>
Relinquished By: <u>David Johnson</u>	Date: <u>9-17-10</u>	Time: <u>10:36</u>	Received By: (Laboratory Staff) <u>David Johnson</u>	Date: <u>9/17/10</u>	Time: <u>10:36</u>
Delivered By: (Circle One)			Sample Condition		
Sampler - UPS - Bus - Other: <u>Other</u>			Cool	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
			Intact	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
			CHECKED BY: <u>AK</u> (Initials)		

ANALYSIS REQUEST (Circle or Specify Method No.)		Phone Results		Fax Results		Additional Fax Number:	
		Yes	No	Yes	No		
MTBE 8021B/602							
ETEX 6260	X						
TPH 418 /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. 8280B/624							
GC/MS Semi. Vol. 8270C/625							
PCBs 8062/608							
Pesticides 8081A/606							
BOD, TSS, pH							
Moisture Content							
Cations (Ca, Mg, Na, K)							
Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	X						
Total Dissolved Solids (160.1 / SM2540C)	X						
Chlorides (325.3 / SM4500 B)	X						
Turn Around Time ~ 24 Hours							

Email Results to:

andrew@rthicksconsult.com
jerryf@vatespetroleum.com
rozanne@valornet.com

September 29, 2010

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/17/10 10:36.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: ?

Received:	09/17/2010	Sampling Date:	09/14/2010
Reported:	09/29/2010	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - d (H020879-01)

BTEX + Naphthalene 8260B		mg/L Analyzed By: CMS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.001	0.001	09/27/2010	ND	0.018	91.5	0.0200	5.42	

Surrogate: Dibromofluoromethane 83.0 % 80-120

Surrogate: Toluene-d8 70.4 % 80-120

Surrogate: 4-Bromofluorobenzene 73.4 % 80-120

Sample ID: MW - 1 - s (H020879-02)

BTEX + Naphthalene 8260B		mg/L Analyzed By: CMS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.001	0.001	09/27/2010	ND	0.018	91.5	0.0200	5.42	

Surrogate: Dibromofluoromethane 92.6 % 80-120

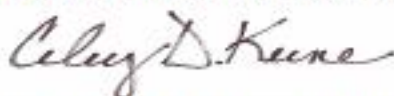
Surrogate: Toluene-d8 91.6 % 80-120

Surrogate: 4-Bromofluorobenzene 93.0 % 80-120

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

December 22, 2010

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/10 9:10.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 12/20/2010
 Reported: 12/22/2010
 Project Name: STATE QE 13 #1
 Project Number: NONE GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 12/16/2010
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H021564-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	4.00	12/22/2010	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	474	5.00	12/21/2010	ND				13.6		

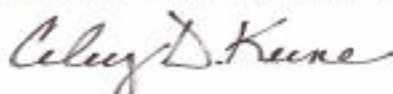
Sample ID: MW - 1 - S (H021564-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	444	4.00	12/22/2010	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	1230	5.00	12/21/2010	ND				13.6		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. It is no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

March 29, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/24/11 16:35.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 03/24/2011
 Reported: 03/29/2011
 Project Name: STATE QE 13 #1
 Project Number: NONE GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 03/23/2011
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H100578-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	4.00	03/29/2011	ND	104	104	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	475	5.00	03/28/2011	ND				0.193		

Sample ID: MW - 1 - S (H100578-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	276	4.00	03/29/2011	ND	104	104	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	943	5.00	03/28/2011	ND				0.193		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

July 08, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 07/01/11 15:37.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 07/01/2011
 Reported: 07/08/2011
 Project Name: STATE QE 13 #1
 Project Number: NONE GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 06/30/2011
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW-1-D (H101373-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	4.00	07/05/2011	ND	112	112	100	3.64		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	490	5.00	07/05/2011	ND	228	95.0	240	1.06		

Sample ID: MW-1-S (H101373-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	444	4.00	07/05/2011	ND	112	112	100	3.64		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	1140	5.00	07/05/2011	ND	228	95.0	240	1.06		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages - Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

October 04, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/30/11 14:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	09/30/2011	Sampling Date:	09/30/2011
Reported:	10/04/2011	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW-1-D (H102103-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	4.00	10/03/2011	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	440	5.00	09/30/2011	ND	222	92.5	240	2.97		

Sample ID: MW-1-S (H102103-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	440	4.00	10/03/2011	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	1220	5.00	09/30/2011	ND	222	92.5	240	2.97		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
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***	Insufficient time to reach temperature.
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

December 28, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/11 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	12/20/2011	Sampling Date:	12/20/2011
Reported:	12/28/2011	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - D (H102752-01)

Chloride, SM4500Cl-B		mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	64.0	4.00	12/21/2011	ND	108	108	100	3.77		
TDS 160.1		mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	487	5.00	12/21/2011	ND	232	96.7	240	4.31		

Sample ID: MW - 1 - S (H102752-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	420	4.00	12/21/2011	ND	108	108	100	3.77		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1140	5.00	12/21/2011	ND	232	96.7	240	4.31		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
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***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

April 05, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/30/12 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	03/30/2012	Sampling Date:	03/28/2012
Reported:	04/05/2012	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - D (H200759-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	64.0	4.00	04/03/2012	ND	100	100	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	499	5.00	04/02/2012	ND	236	98.3	240	0.656		

Sample ID: MW - 1 - S (H200759-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	420	4.00	04/03/2012	ND	100	100	100	0.00		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1200	5.00	04/02/2012	ND	236	98.3	240	0.656		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name:	RT Hicks Consultants	BILL TO Company:	Yates Petroleum	PO#	Jerry Fanning
Project Manager:	Andrew Parker	Address:	105 S 4th Street ~ Artesia, New Mexico 88210	(Street, City, Zip)	
Address:	(Street, City, Zip)	Phone#:	(575) 748-1471	Phone#:	
901 Rio Grande Blvd NW Suite F-142 ~ Albuquerque, NM 87104					
Phone #	Face #				

Project #:	State QE 13 #1	Project Name:	Yates Petroleum
Project Location:	T12S-R34E-Sect13 Unit Letter O ~ Lea County - New Mexico		
	Sampler Signature: Rozanne Johnson (575)831-9310 rozanne@yatesjournal.com		

Sampler Signature: Rozanne Jantson 1575531-9310

tozanre@yorknet.com

[illegible]

Relinquished by: Rozanne Johnson	Date: 3/30/02	Time: 7:58	Received by: Jenny Johnson	Date: 3/30/02	Time: 8:00
Relinquished by: Jenny Johnson	Date: 3/30/02	Time: 9:05	Received By: (Laboratory Staff) Addi Jensen	Date: 3/30/02	Time: 9:05
Delivered By: (Circle One) <div style="border: 1px solid black; width: 100px; height: 50px; display: flex; align-items: center; justify-content: center;"> U </div>			CHECKED BY: <div style="border: 1px solid black; width: 100px; height: 50px; display: flex; align-items: center; justify-content: center;"> JA </div> (Initials)		
Sampler - UPS - Bus - Other			Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 1.5 hrs <input checked="" type="checkbox"/> No <input type="checkbox"/>		

andrew@thicksconsult.com
lerryf@vatespetroleum.com
rozanne@valornet.com

(Initials)

Sample Condition	Cool	Intact
1.5 Yes	Yes	Yes
1.5 No	No	No

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

Other

Sampler - UPS - Bus

#26

July 03, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 06/29/12 9:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 06/29/2012
 Reported: 07/03/2012
 Project Name: STATE QE 13 #1
 Project Number: NOT GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 06/28/2012
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H201463-01)

Chloride, SM4500Cl-B		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	07/02/2012	ND	100	100	100	3.92	
TDS 160.1		mg/L	Analyzed By: AP						

TDS 160.1		mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	459	5.00	07/03/2012	ND	235	97.9	240	1.94	

Sample ID: MW - 1 - S (H201463-02)

Chloride, SM4500Cl-B		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	460	4.00	07/02/2012	ND	100	100	100	3.92	
TDS 160.1		mg/L	Analyzed By: AP						

TDS 160.1		mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1250	5.00	07/03/2012	ND	235	97.9	240	1.94	

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages - Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

101 East Marlboro - Hobbs, New
Mexico 88240
Tel (575) 303-2308
Fax (575) 393-0475

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID:

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

Phone Results	Yes	No
Fax Results	Yes	No

Email Results to:

andrew@rthicksconsult.com
jerryf@yatespetroleum.com
rozanne@valornet.com

Company Name: RT Hicks Consultants	BILL TO	Company:	PO#
Project Manager: Andrew Parker		Yates Petroleum	Jerry Fanning
Address: 901 Rio Grande Blvd NW Suite F-142 ~ Albuquerque, NM 87104		Address: 105 S 4th Street ~ Artesia, New Mexico 88210	(Street, City, Zip)
		Phone#:	Fax#:
		(575) 748-1471	
<div> <div>FORM #</div> <div>FORM #</div> </div>			

Project #: State QE 13 #1
Project Name: Yates Petroleum
Project Location: T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico
Sampler Signature: [Signature]
McKenzie Johnson (575)631-8310
mjohnson@yatespetroleum.com

[illegible]

Refrigerated by: <i>[Signature]</i>	Date: <i>6-24-2012</i>	Time: <i>8:15</i>
Refrigerated by: <i>Prozanne Johnson</i>	Date: <i>6-24-2012</i>	Time: <i>8:15</i>
Refrigerated by: <i>[Signature]</i>	Date: <i>6-24-2012</i>	Time: <i>9:35</i>
Refrigerated by: <i>Virginia Severn</i>	Date: <i>6-24-2012</i>	Time: <i>9:35</i>
Refrigerated by: <i>[Signature]</i>	Date: <i>6-24-2012</i>	Time: <i>9:35</i>
Refrigerated by: <i>Virginia Severn</i>	Date: <i>6-24-2012</i>	Time: <i>9:35</i>

October 09, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 10/03/12 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/03/2012	Sampling Date:	09/27/2012
Reported:	10/09/2012	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	none given	Sample Received By:	Celey D. Keene
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - D (H202411-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	64.0	4.00	10/08/2012	ND	100	100	100	3.92		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	527	5.00	10/04/2012	ND	269	112	240	0.456		

Sample ID: MW - 1 - S (H202411-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	570	4.00	10/08/2012	ND	100	100	100	3.92		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1430	5.00	10/04/2012	ND	269	112	240	0.456		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages - Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

December 21, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/18/12 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	12/18/2012	Sampling Date:	12/18/2012
Reported:	12/21/2012	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	none given	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW-1-D (H203043-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	68.0	4.00	12/19/2012	ND	100	100	100	7.69		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	485	5.00	12/21/2012	ND	210	87.5	240	7.73		

Sample ID: MW-1-S (H203043-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	440	4.00	12/19/2012	ND	100	100	100	7.69		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1200	5.00	12/21/2012	ND	210	87.5	240	7.73		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

101 East Maryland - Hobbs, New Mexico
505242
(575) 393-2326
(575) 393-3476

Company Name:	RT Hicks Consultants	BILL TO	Company:	Yates Petroleum	PO#	Jerry Fanning
Project Manager:	Andrew Parker	Address:	Address:	(Street, City, Zip)		
	(Street, City, Zip)		Phone#:	105 S 4th Street ~ Artesia, New Mexico 88210	Phone#:	
	901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104		Fax#:	(575) 748-1471		
Phone #:						

Project #:	State QE 13 #1	Project Name:	Yates Petroleum
Project location:	Samples Signature:  Rozanne Johnson (575)931-0310 T12S-R34E-sec13 Unit Letter O ~ Lea County - New Mexico ozanne@yatesoil.com		

Sample Signature: Rozanne Johnson (575) 631-0310
rozanne@veloel.com

T12S-R34F_Sec13 Unit Letter O ~ Lea County - New Mexico

TEST TYPE	DATE OF TEST	UNIT	LABORATORY	TEST ROOM NO.	PRESERVATIVE METHOD	SAMPLING
					MATRIX	

	(c)	
	(d)	

LAB #	FIELD CODE	(cont)	NAME	MOA)	DATE

FIELD CODE	(C)	ALIN	1	E	Cont V	6	Sheet 3	012
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Requisitioned by: 	Received by: 
Date: _____	Date: _____
Time: _____	Time: _____

17.00

Rozanne Johnson	2-18-02	15.0	12-18-01	2109	13.2
-----------------	---------	------	----------	------	------

Relinquished by: [Signature] Date: 10/10/01 Time: 1:00
Received By: (Laboratory Staff) [Signature] Date: 10/10/01 Time: 1:00

20:40 7:40 WYU MECH 171847 2:00

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
----------------------------	------------------	-------------

Year	Cool	Warm
1988	100	100
1989	100	100
1990	100	100
1991	100	100
1992	100	100
1993	100	100
1994	100	100
1995	100	100
1996	100	100
1997	100	100
1998	100	100
1999	100	100
2000	100	100
2001	100	100
2002	100	100
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2022	100	100
2023	100	100
2024	100	100
2025	100	100
2026	100	100
2027	100	100
2028	100	100
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2031	100	100
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2088	100	100
2089	100	100
2090	100	100
2091	100	100
2092	100	100
2093	100	100
2094	100	100
2095	100	100
2096	100	100
2097	100	100
2098	100	100
2099	100	100
2100	100	100

Yes ☐ No ☒ Yes ☐ No ☒ (Initials) *AD*

Sampler - UPS - Bus - Other: <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	6/11
--	-----------------------------	-----------------------------	------

2

11

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

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

REMARKS:

Email Results to:

andrew@rthicksconsult.com
jerryf@vatespetroleum.com
rozanne@valomet.com

April 04, 2013

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/28/13 14:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.


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Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 03/28/2013
 Reported: 04/04/2013
 Project Name: STATE QE 13 #1
 Project Number: NOT GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 03/28/2013
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H300749-01)

Chloride, SM4500Cl-B		mg/L	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	04/01/2013	ND	108	108	100	0.00	
TDS 160.1		mg/L	Analyzed By: AP						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	480	5.00	04/03/2013	ND	240	100	240	1.92	

Sample ID: MW - 1 - S (H300749-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	440	4.00	04/01/2013	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1240	5.00	04/03/2013	ND	240	100	240	1.92	

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # _____Page 4 of 4

July 09, 2013

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 06/27/13 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 06/27/2013
 Reported: 07/09/2013
 Project Name: STATE QE 13 #1
 Project Number: NOT GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 06/26/2013
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW-1-D (H301522-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	68.0	4.00	06/28/2013	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	500	5.00	07/03/2013	ND	244	102	240	0.157		

Sample ID: MW-1-S (H301522-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	452	4.00	06/28/2013	ND	108	108	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1290	5.00	07/03/2013	ND	244	102	240	0.157		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name:
RT Hicks Consultants

BILL TO Company:
Yates Petroleum
Address: **Jerry Fanning**
(Street, City, Zip)

Project Manager:

Andrew Parker

105 S 4th Street - Artesia, New Mexico 88210

Address: (Street, City, Zip)

Phone: (505) 748-1471

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

Fax: (505) 266-5004

Phone: (505) 266-5004

Project Name: **Yates Petroleum**

Project #:

State OE 13 #1

Project Location:

T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Project Location:

Signature: *[Signature]*
Mozanne Johnson 15/5/831-3310
rozanne@yatespetroleum.com

Project Location:

LAB #

LAB USE ONLY

FIELD CODE

LAB USE ONLY

LAB USE ONLY

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September 28, 2013

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/25/13 16:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 09/25/2013
 Reported: 09/28/2013
 Project Name: STATE QE 13 #1
 Project Number: NOT GIVEN
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 09/24/2013
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H302333-01)

Chloride, SM4500Cl-B		mg/L	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	56.0	4.00	09/27/2013	ND	100	100	100	7.69		
TDS 160.1		mg/L	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	479	5.00	09/27/2013	ND	242	101	240	1.87		

Sample ID: MW - 1 - S (H302333-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	470	4.00	09/27/2013	ND	100	100	100	7.69		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1320	5.00	09/27/2013	ND	242	101	240	1.87		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

ANALYSIS REQUEST (Circle or Specify Method No.)

Turn Around Time ~ 24 Hours

Company Name:
RT Hicks Consultants

BILL TO Company:
Yates Petroleum

Address:
105 S 4th Street - Artesia, New Mexico 88210

Project Manager:
Andrew Parker

Address: (Street, City, Zip)
901 Rio Grande Blvd NW Suite F-142 - Albuquerque, NM 87104

Phone #: (505) 266-5004 Fax #: (575) 748-1471

Project #:

State: **QE 13 #1**

Project Name:

Yates Petroleum

Project Location:
T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico

Sample Signatures: *Rozanne Johnson* (575) 831-9310
Rozanne@valmet.com

LAB #

FIELD CODE

LAB USE ONLY

H302333

1 NW-1-d
2 NW-1-s

(G)rab or (C)omp

CONTAINERS

WATER

SOIL

AIR

SLUDGE

HCL (2.40ml VOA)

HNO₃

NaHSO₄

H₂SO₄

ICE (1-1 Liter HDPE)

NONE

DATE (2013)

TIME

MTBE 8021B/602

BTEX 8260

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

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Moisture Content

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, CO₃, HCO₃)

Total Dissolved Solids (160.1 / SM2540C)

Chlorides (325.3 / SM4500 B)

Received By:

Date: Time:

Received By:

Date: Time:

Relinquished By:

Date: Time:

Received By: (Laboratory Staff)

Date: Time:

Delivered By: (Circle One)

Sample Condition

Cool

CHECKED BY:

Email Results to:

andrew@thicksconsult.com

jerry@yatespetroleum.com

rozanne@valmet.com

Sampler - UPS - Bus - Other

Yes

No

Yes

No

(Initials)

9/25

#54

January 09, 2014

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/31/13 14:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

 Received: 12/31/2013
 Reported: 01/09/2014
 Project Name: STATE QE 13 #1
 Project Number: none given
 Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

 Sampling Date: 12/30/2013
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW - 1 - D (H303168-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	52.0	4.00	01/08/2014	ND	104	104	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	465	5.00	01/09/2014	ND	458	86.9	527	2.93		

Sample ID: MW - 1 - S (H303168-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	436	4.00	01/08/2014	ND	104	104	100	0.00		
TDS 160.1		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1170	5.00	01/09/2014	ND	458	86.9	527	2.93		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

April 09, 2014

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 04/03/14 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 ANDREW PARKER
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	04/03/2014	Sampling Date:	03/28/2014
Reported:	04/09/2014	Sampling Type:	Water
Project Name:	STATE QE 13 #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T12S-R34E-SEC13 U LTR O ~ LEA CTY -		

Sample ID: MW - 1 - D (H400997-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	60.0	4.00	04/04/2014	ND	100	100	100	0.00	
TDS 160.1		mg/L		Analyzed By: AP					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	524	5.00	04/07/2014	ND	494	93.7	527	0.00	

Sample ID: MW - 1 - S (H400997-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	412	4.00	04/04/2014	ND	100	100	100	0.00	
TDS 160.1		mg/L		Analyzed By: AP					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1110	5.00	04/07/2014	ND	494	93.7	527	0.00	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

Appendix B

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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

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	Lab Id: 299688-001 Field Id: MW-1 Depth: Matrix: WATER Sampled: Mar-13-08 12:35			
Anions by EPA 300/300.1	Extracted: Analyzed: Mar-15-08 10:29 Units/RL: mg/L RL			
Chloride	4340 50.0			
Sulfate	566 50.0			
BTEX by EPA 8021B	Extracted: Mar-19-08 10:00 Analyzed: Mar-19-08 17:26 Units/RL: 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	Extracted: Analyzed: Mar-17-08 16:36 Units/RL: mg/L RL			
Calcium	506 0.100			
Magnesium	120 0.010			
Potassium	4.93 0.500			
Sodium	1060 0.500			
TDS by SM2540C	Extracted: Analyzed: Mar-17-08 16:00 Units/RL: mg/L RL			
Total dissolved solids	6040 5.00			
Total Alkalinity by EPA 310.1	Extracted: Analyzed: Mar-17-08 14:15 Units/RL: mg/L RL			
Alkalinity, Total (as CaCO ₃)	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.

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


Brent Barron
Odessa Laboratory Director

- 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

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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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] = $100 \cdot A / B$

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

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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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] = $100 \cdot A / B$

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

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] = $100 \times [C] / [B]$

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												
Units: mg/L												
BTEX by EPA 8021B		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	Mag
Analytes												
Benzene		ND	0.1000	0.0867	87	0.1	0.0848	85	2	70-125	25	
Toluene		ND	0.1000	0.0868	87	0.1	0.0848	85	2	70-125	25	
Ethylbenzene		ND	0.1000	0.0916	92	0.1	0.0885	89	3	71-129	25	
m,p-Xylenes		ND	0.2000	0.1841	92	0.2	0.1774	89	4	70-131	25	
o-Xylene		ND	0.1000	0.0998	100	0.1	0.0959	96	4	71-133	25	

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

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

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

Work Order #: 299688

Lab Batch ID: 717610

Date Analyzed: 03/19/2008

Reporting Units: mg/L

Project ID: State QE 13 #1

QC - Sample ID: 299447-003 S

Date Prepared: 03/19/2008

Batch #: 1

Analyst: SHE

Matrix: Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
Reporting Units: mg/L	BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limit is %RPD	Flag	
		Benzene	ND	0.1000	0.1038	104	0.1000	0.1121	112	7	70-125	25	
		Toluene	ND	0.1000	0.1030	103	0.1000	0.1122	112	8	70-125	25	
		Ethylbenzene	ND	0.1000	0.1055	106	0.1000	0.1168	116	9	71-129	25	
		m,p-Xylenes	ND	0.2000	0.2079	104	0.2000	0.2298	115	10	70-131	25	
		o-Xylene	ND	0.1000	0.1095	110	0.1000	0.1212	121	10	71-133	25	

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

ApplicableN = See Norms, DQL = Estimated Quantitation Limit

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

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

Project ID: State QE 13 #1

Analyst: LATCOR

Matrix: Water

Date Prepared: 03/15/2008

Batch #: 1

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 CaCO ₃)	228	236	3	20	
Alkalinity, Carbonate (as CaCO ₃)	ND	ND	NC	20	
Alkalinity, Bicarbonate (as CaCO ₃)	ND	ND	NC	20	

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

XENCO Laboratories / Environmental Lab of Texas

12650 Ward Road East
Dallas, Texas 75245

Phone: 432-963-1800
Fax: 432-963-1713

Project Manager: Randy Hicks

Company Name: R. T. Hicks Consultants, Ltd.

Company Address: 901 Rio Grande Blvd NW

City, State, Zip Code: Albuquerque NM 87104

Telephone No: 505-268-5004

Fax No: 505-268-0745

Sampler: Gil Van Deventer

Print

Project Name: Pride Energy Company

Project # State OE 13 #1

Project Location: T125-R34E, Section 1, Unit Letter L

COC # 50E13-1-0308

299688
LAB # (lab use only)

FIELD CODE
MW-1

Date Sampled
7-17-03

Time Sampled
12:35

No. of Containers
3

Preservative
None

Matrix
Soil

Analysis For
TOC
TOTAL
P
NH₄⁺
NO₃⁻
NO₂⁻
CO₃²⁻
HCO₃⁻
F
Cl
Br
I
S
Se
Cd
Cr
Cu
Fe
Mn
Mo
Ni
Pb
Sb
Si
Tl
V
Zn
As
Ba
Be
Bi
B
Br
Ca
Ce
Co
Cs
Dy
Er
Eu
Ga
Ge
Hf
Hg
In
Ir
K
La
Li
Lu
Mg
Mg
Na
Nb
Nd
Ni
N
O
Os
P
Pd
Pb
Pt
Rb
Rh
Ru
S
Sb
Sc
Se
Si
Sm
Sn
Sr
Ta
Tb
Te
Ti
Tl
Tm
U
V
W
Y
Zn

TOC
TOTAL
P
NH₄⁺
NO₃⁻
NO₂⁻
CO₃²⁻
HCO₃⁻
F
Cl
Br
I
S
Se
Cd
Cr
Cu
Fe
Mn
Mo
Ni
Pb
Sb
Si
Tl
V
Zn
As
Ba
Be
Bi
B
Br
Ca
Ce
Co
Cs
Dy
Er
Eu
Ga
Ge
Hf
Hg
In
Ir
K
La
Li
Lu
Mg
Mg
Na
Nb
Nd
Ni
N
O
Os
P
Pd
Pb
Pt
Rb
Rh
Ru
S
Sb
Sc
Se
Si
Sm
Sn
Sr
Ta
Tb
Te
Ti
Tl
Tm
U
V
W
Y
Zn

Special Instructions:

Email results to: n@rtickconsult.com and gilbertvandeventer@suddenlink.net

Received by

Date

Time

Received by

Date

Time

Received by

Date

Time

Sample Containers Used?

Temperature Upon Receipt?

Laboratory Comments

Labels

Number

Order

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-in

Client: P.T. Hicks
Date/ Time: 3-14-08 4:15
Lab ID #: 279688
Initials: AL

Sample Receipt Checklist

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

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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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

Analysis Requested	Lab Id: 306330-001 Field Id: MW-1 Depth: Matrix: WATER Sampled: Jun-19-08 07:20	306330-002 MW-1 Deep WATER Jun-19-08 08:05		
Alkalinity by SM2320B	Extracted: Analyzed: Jun-26-08 10:45 Units/RL: mg/L RL	Jun-26-08 10:45 mg/L RL		
Alkalinity, Total (as CaCO ₃)	236 4.00	180 4.00		
Alkalinity, Bicarbonate (as CaCO ₃)	236 4.00	180 4.00		
Alkalinity, Carbonate (as CaCO ₃)	ND 4.00	ND 4.00		
Inorganic Anions by EPA 300	Extracted: Analyzed: Jun-23-08 08:50 Units/RL: mg/L RL	Jun-23-08 08:50 mg/L RL		
Chloride	1760 100	66.7 12.5		
Sulfate	348 100	132 12.5		
Metals per ICP by SW846 6010B	Extracted: Analyzed: Jun-23-08 11:59 Units/RL: mg/L RL	Jun-23-08 11:59 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	Extracted: Analyzed: Jun-23-08 16:30 Units/RL: mg/L RL	Jun-23-08 16:30 mg/L RL		
Total dissolved solids	3310 5.00	464 5.00		

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Brent Barron
Odessa Laboratory Director

- 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.
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- K** Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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 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

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	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Alkalinity, Bicarbonate (as CaCO ₃)	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	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
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.

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

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

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

Project ID: State QE 13 # 1

Analyst: WRU

Matrix: Water

Date Prepared: 06/26/2008

Batch #: 1

SAMPLE / SAMPLE DUPLICATE RECOVERY

Alkalinity by SM2320B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Alkalinity, Bicarbonate (as CaCO ₃)	190	180	20	20	
Alkalinity, Carbonate (as CaCO ₃)	ND	ND	20	20	
Alkalinity, Total (as CaCO ₃)	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?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>6.0 °C</u>
#2 Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Present</u>
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Present</u>
#5 Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>ID written on Cont/ Lid</u>
#9 Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#11 Containers supplied by ELOIT?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>See Below</u>
#13 Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>See Below</u>
#14 Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>See Below</u>
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>See Below</u>
#19 Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>

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



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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: H15916-1
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 H15916-1	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	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

09/17/08
Date



CARDINAL LABORATORIES

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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: H15916-1
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	Method	True Value		
	H15916-1	Blank	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


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/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

Date

09/17/08



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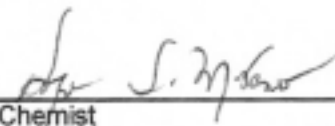
ANALYTICAL RESULTS FOR
RT HICKS CONSULTANTS
ATTN: ANDREW PARKER
901 RIO GRANDE BLVD. NW, SUITE F-142
ALBUQUERQUE, NM 87104

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
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Chemist


09-16-08
Date

Cardinal Laboratories, Inc.

101 East Marland - Hobbs, New
Mexico 88240
Tel: (575) 393-2320
Fax: (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name: RT Hicks Consultants		BILL TO Company: Pride Energy Company / Matt Pride		PO#
Project Manager: Andrew Parker		Address: P. O. Box 710950 ~ Tulsa, OK 74170-1950		(Street, City, Zip)
Address: 901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104		Phone#: (918) 524-9200		Fax#: (918) 524-9292
Phone #: (505) 266-5004		Fax #:		
Project #:		Project Name:		
State QE 13 #1		Pride Energy Company		
Project Location: T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico		Sampler Signature:  Bazzanne Johnson (875) 631-8310 jozennin@valornet.com		

BILL TO	Company:	PO#
Pride Energy Company / Matt Pride		
Address:		(Street, City, Zip)
P. O. Box 710950 ~ Tulsa, OK 74170-1950		
Phone#:		Fac#:
(918) 524-9200		(918) 524-9292

[illegible]

Relinquished by:  Rozanne Johnson	Date: 9-11-2008	Time: 3:40
Received by:  Victor Labat	Date: 9/11/08	Time: 3:40
Relinquished by: _____	Date: _____	Time: _____
Received By: (Laboratory Staff)	Date: _____	Time: _____

Delivered By: (Circle One)	Sample Condition	Checked By:
<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> S </div> Sampler - UPS - Bus - Other:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cool <input checked="" type="checkbox"/> <input type="checkbox"/> Intact <input type="checkbox"/> <input checked="" type="checkbox"/>	(Initials) <i>MCB</i>



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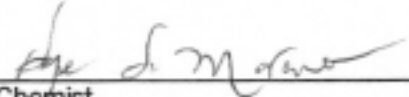
**ANALYTICAL RESULTS FOR
RT HICKS CONSULTANTS
ATTN: ANDREW PARKER
901 RIO GRANDE BLVD. NW, SUITE F-142
ALBUQUERQUE, NM 87104**

Receiving Date: 12/10/08
Reporting Date: 12/11/08
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: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: HM/TR

LAB NO.	SAMPLE ID	TDS (mg/L)	CF (mg/L)
Analysis Date:		12/10/08	12/11/08
H16487-1	MW-1-d	515	60
H16487-2	MW-1-s	3,510	1,500
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		NR	< 0.1

METHOD: EPA 600/4-79-020	160.1	SM4500-CI-B
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Chemist

12-11-08
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: 12/10/08
Reporting Date: 12/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM
Lab Number: H16487-1
Sample ID: MW-1-D

Analysis Date: 12/16/08
Sampling Date: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

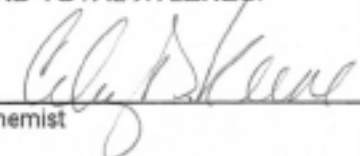
VOLATILES (mg/L)	Sample Result H16487-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.055	110	0.050
Toluene	<0.001	<0.001	0.056	112	0.050
Ethylbenzene	<0.001	<0.001	0.056	112	0.050
m,p-Xylene	<0.002	<0.002	0.119	119	0.100
o-Xylene	<0.001	<0.001	0.055	110	0.050

% RECOVERY


Dibromofluoromethane	103
Fluorobenzene	108
Toluene-d8	99.2
4-Bromofluorobenzene	84.7

METHODS: EPA SW-846 8260

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



Chemist



Date



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

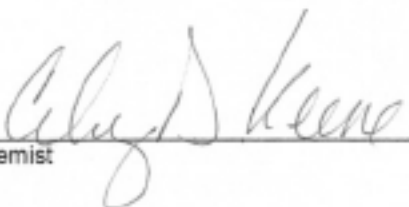
Receiving Date: 12/10/08
Reporting Date: 12/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM
Lab Number: H16487-1
Sample ID: MW-1-D

Analysis Date: 12/16/08
Sampling Date: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H16487-1	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.059	118	0.050

% RECOVERY	
Dibromofluoromethane	103
Fluorobenzene	108
Toluene-d8	99.2
4-Bromofluorobenzene	84.7

METHODS: EPA SW-846 8260



Chemist



Date



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

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

Receiving Date: 12/10/08
Reporting Date: 12/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O - LEA CO., NM
Lab Number: H16487-2
Sample ID: MW-1-S

Analysis Date: 12/16/08
Sampling Date: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

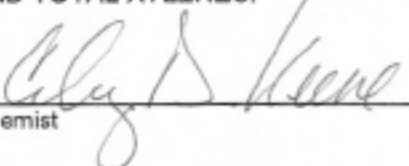
VOLATILES (mg/L)	Sample Result H16487-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.055	110	0.050
Toluene	<0.001	<0.001	0.056	112	0.050
Ethylbenzene	<0.001	<0.001	0.056	112	0.050
m,p-Xylene	<0.002	<0.002	0.119	119	0.100
o-Xylene	<0.001	<0.001	0.055	110	0.050

% RECOVERY

Dibromofluoromethane	115
Fluorobenzene	115
Toluene-d8	96.0
4-Bromofluorobenzene	69.0

METHODS: EPA SW-846 8260

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



Chemist



Date



CARDINAL 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: 12/10/08
Reporting Date: 12/17/08
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM
Lab Number: H16487-2
Sample ID: MW-1-S

Analysis Date: 12/16/08
Sampling Date: 12/08/08
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

	Sample Result	Method		True Value
VOLATILES (mg/L)	H16487-2	Blank	QC %Recov.	QC
Naphthalene	<0.001	<0.001	0.059	118 0.050

% RECOVERY	
Dibromofluoromethane	116
Fluorobenzene	115
Toluene-d8	96.0
4-Bromofluorobenzene	69.0

METHODS: EPA SW-846 8260


Chemist


Date

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

[illegible]



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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: 03/19/09

Reporting Date: 03/23/09

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: 03/18/08

Sample Type: WATER


Sample Condition: COOL & INTACT

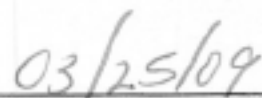
Sample Received By: ML

Analyzed By: HM/TR

LAB NO.	SAMPLE ID	TDS (mg/L)	Cl ⁻ (mg/L)
Analysis Date:		03/20/09	03/20/09
H17096-1	MW-1-d	498	60
H17096-2	MW-1-s	3,360	1,380
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		0.6	< 0.1

METHOD: EPA 600/4-79-020	160.1	SM4500-Cl-B
--------------------------	-------	-------------


Chemist


Date



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

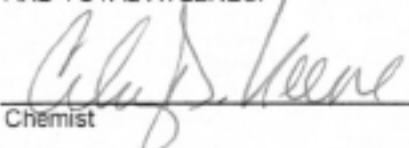
Receiving Date: 03/19/09
Reporting Date: 03/25/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H17096-1

Analysis Date: 03/24/09
Sampling Date: 03/18/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H17096-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.023	92.0	0.025
Toluene	<0.001	<0.001	0.024	96.0	0.025
Ethylbenzene	<0.001	<0.001	0.027	108	0.025
m+p - Xylene	<0.002	<0.002	0.058	116	0.050
o-Xylene	<0.001	<0.001	0.024	96.0	0.025

% Recovery	
Dibromofluoromethane	83.5
Fluorobenzene	84.8
Toluene-d8	106
4-Bromofluorobenzene	81.9

METHODS: EPA SW-846-8260.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Chemist

03/25/09
Date



CARDINAL LABORATORIES

PHONE (575) 393-2328 • 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: 03/19/09
Reporting Date: 03/25/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H17096-1

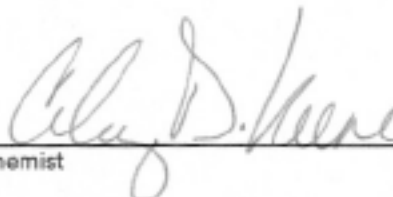
Analysis Date: 03/24/09
Sampling Date: 03/18/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H17096-1	Method Blank	QC	%Recov.	True Value QC
------------------	---------------------------	-----------------	----	---------	------------------

Naphthalene	<0.001	<0.001	0.027	108	0.025
-------------	--------	--------	-------	-----	-------

% Recovery	
Dibromofluoromethane	83.5
Fluorobenzene	84.8
Toluene-d8	106
4-Bromofluorobenzene	81.9

METHODS: EPA SW-846-8260.


Chemist

03/25/09
Date



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

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

Receiving Date: 03/19/09
Reporting Date: 03/25/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H17096-2

Analysis Date: 03/24/09
Sampling Date: 03/18/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

BTEX - 8260 (mg/L)

Sample Result
H17098-2

Method
Blank

QC %Recov

True Value
QC

Benzene	<0.001	<0.001	0.023	92.0	0.025
Toluene	<0.001	<0.001	0.024	96.0	0.025
Ethylbenzene	<0.001	<0.001	0.027	108	0.025
m+p - Xylene	<0.002	<0.002	0.058	116	0.050
o-Xylene	<0.001	<0.001	0.024	96.0	0.025

% Recovery

Dibromofluoromethane	89.3
Fluorobenzene	85.1
Toluene-d8	102
4-Bromofluorobenzene	89.8

METHODS: EPA SW-846-8260.

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

Chemist

Date _____



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: 03/19/09
Reporting Date: 03/25/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER D
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H17096-2

Analysis Date: 03/24/09
Sampling Date: 03/18/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

BTEX - 8260 (mg/L)	Sample Result H17096-2	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.027	108	0.025

% Recovery	
Dibromofluoromethane	89.0
Fluorobenzene	85.1
Toluene-d8	102
4-Bromofluorobenzene	89.8


METHODS: EPA SW-846-8260.


Chemist


Date

Cardinal Laboratories, Inc.

101 East Maryland - Hobbs, New
Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Company Name: RT Hicks Consultants	BILL TO Company: Pride Energy Company / Matt Pride	PO#
Project Manager: Andrew Parker	Address: P. O. Box 710950 ~ Tulsa, OK 74170-1950	(Street, City, Zip)
Address: 901 Rio Grande Blvd NW Suite F-142 ~ Albug, NM 87104	Phone#: (918) 524-9200	Phone#: (918) 524-9292
Phone #: (505) 266-5004	Fax #:	
Project #: State QE 13 #1	Project Name: Pride Energy Company	
Project Location: T12SR34E-Sec13 Unit Letter O ~ Lea County - New Mexico	Sampler Signature:  Rozanne Johnson (505) 631-9310 rozanne@valomet.com	

[illegible]



ARDINAL LABORATORIES

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

July 6, 2009

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H17660, received by the laboratory on 06/18/09 at 1:55 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



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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: 06/18/09

Reporting Date: 06/22/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O~
LEA CO., NM

Sampling Date: 06/17/09

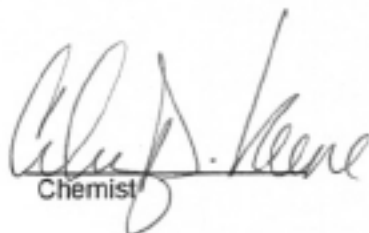
Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: AB/HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	TDS (mg/L)
Analysis Date:		06/19/09	06/19/09
H17660-1	MW-1-D	64	490
H17660-2	MW-1-S	1,120	2,860
Quality Control		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Percent Difference		<0.1	0.3
METHOD: Standard Methods, EPA		4500-Cl ⁻ B	160.1
Not accredited for chloride and TDS.			


Chemist

Date

07/06/09

H17660 RT HICKS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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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: 06/18/09
Reporting Date: 07/02/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H17660-1

Analysis Date: 06/30/09
Sampling Date: 06/17/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: SS

BTEX 8260 (mg/L)	Sample Result H17660-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.019	95.0	0.020
Toluene	<0.001	<0.001	0.018	90.0	0.020
Ethylbenzene	<0.001	<0.001	0.022	112	0.020
m+p Xylene	<0.002	<0.002	0.046	112	0.040
o-Xylene	<0.001	<0.001	0.023	115	0.020

% Recovery	
Dibromofluoromethane	102
Toluene-d8	100
4-Bromofluorobenzene	91.5

METHODS: EPA SW-846-8260.
Subcontracted to SunStar Laboratories, Inc.


Chemist

07/06/09
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

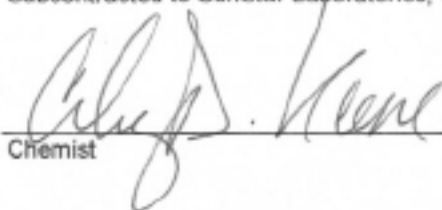
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Reporting Date: 07/02/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H17660-1

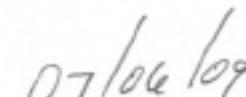
Analysis Date: 06/30/09
Sampling Date: 06/17/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: SS

BTEX 8260 (mg/L)	Sample Result H17660-1	Method Blank	QC %Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.029 144	0.020

% Recovery	
Dibromofluoromethane	102
Toluene-d8	100
4-Bromofluorobenzene	91.5

METHODS: EPA SW-846-8260.
Subcontracted to SunStar Laboratories, Inc.


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: 06/18/09
Reporting Date: 07/02/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H17660-2

Analysis Date: 06/30/09
Sampling Date: 06/17/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: SS

BTEX - 8260 (mg/L)	Sample Result H17660-2	Method Blank	QC	%Recov.	True Value QC
--------------------	---------------------------	-----------------	----	---------	------------------

Benzene	<0.001	<0.001	0.019	95.0	0.020
Toluene	<0.001	<0.001	0.018	90.0	0.020
Ethylbenzene	<0.001	<0.001	0.022	112	0.020
m+p - Xylene	<0.002	<0.002	0.045	113	0.040
o-Xylene	<0.001	<0.001	0.023	115	0.020

% Recovery

Dibromofluoromethane	99.1
Toluene-d8	101
4-Bromofluorobenzene	106

METHODS: EPA SW-846-8260.
Subcontracted to SunStar Laboratories, Inc.

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: 06/18/09
Reporting Date: 07/02/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H17660-2

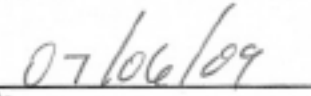
Analysis Date: 06/30/09
Sampling Date: 06/17/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: SS

BTEX - 8260 (mg/L)	Sample Result H17660-2	Method Blank	QC %Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.029 144	0.020

% Recovery	
Dibromofluoromethane	99.1
Toluene-d8	101
4-Bromofluorobenzene	106

METHODS: EPA SW-846-8260.
Subcontracted to SunStar Laboratories, Inc.


Chemist


Date



ARDINAL LABORATORIES

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

October 5, 2009

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H18305, received by the laboratory on 09/24/09 at 11:21 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

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

 Receiving Date: 09/24/09
 Reporting Date: 10/01/09
 Project Number: STATE QE 13#1
 Project Name: PRIDE ENERGY COMPANY
 Project Location: T12S-R34E-SEC13 UNIT LETTER O
 LEA COUNTY, NM
 Sample ID: MW-1-D
 Lab Number: H18305-1

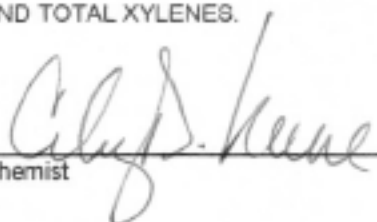
 Analysis Date: 09/30/09
 Sampling Date: 09/22/09
 Sample Type: WATER
 Sample Condition: COOL & INTACT @ 1.5°C
 Sample Received By: ML
 Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18305-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.010	100	0.010
Toluene	<0.001	<0.001	0.011	110	0.010
Ethylbenzene	<0.001	<0.001	0.010	100	0.010
m+p - Xylene	<0.002	<0.002	0.022	109	0.020
o-Xylene	<0.001	<0.001	0.011	106	0.010

% Recovery	
Dibromofluoromethane	88.5
Toluene-d8	104
4-Bromofluorobenzene	113

METHODS: EPA SW-846-8260.

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


 Chemist

 10/05/09
 Date



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

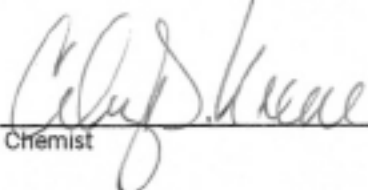
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Reporting Date: 10/01/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-D
Lab Number: H18305-1

Analysis Date: 09/30/09
Sampling Date: 09/22/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: ML
Analyzed By: ZL

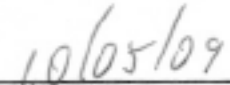
BTEX 8260 (mg/L)	Sample Result H18305-1	Method Blank	QC		True Value QC
			QC	%Recov.	
Naphthalene	<0.001	<0.001	0.020	98.7	0.020

% Recovery	
Dibromofluoromethane	88.5
Toluene d8	104
4-Bromofluorobenzene	113

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.



Chemist



Date



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBBS, NM 86240

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

Receiving Date: 09/24/09
Reporting Date: 10/01/09
Project Number: STATE QE 13#1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H18305-2

Analysis Date: 09/30/09
Sampling Date: 09/22/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: ML
Analyzed By: ZL

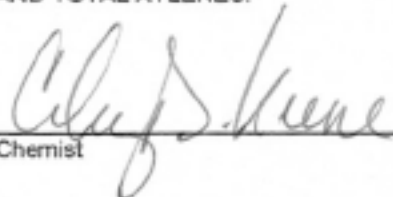
BTEX 8260 (mg/L)	Sample Result H18305-2	Method Blank	QC	%Recov.	True Value QC
------------------	---------------------------	-----------------	----	---------	------------------

Benzene	<0.001	<0.001	0.010	100	0.010
Toluene	<0.001	<0.001	0.011	110	0.010
Ethylbenzene	<0.001	<0.001	0.010	100	0.010
m+p - Xylene	<0.002	<0.002	0.022	109	0.020
o-Xylene	<0.001	<0.001	0.011	106	0.010

% Recovery

Dibromofluoromethane	90.6
Toluene-d8	107
4-Bromofluorobenzene	107

METHODS: EPA SW-846-8260.
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.



Chemist

10/05/09

Date

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

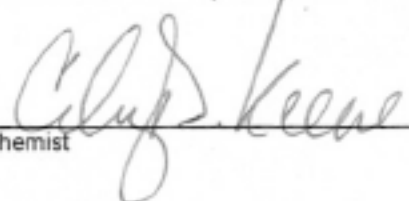
 Receiving Date: 09/24/09
 Reporting Date: 10/01/09
 Project Number: STATE QE 13#1
 Project Name: PRIDE ENERGY COMPANY
 Project Location: T12S-R34E-SEC13 UNIT LETTER O
 LEA COUNTY, NM
 Sample ID: MW-1-S
 Lab Number: H18305-2


 Analysis Date: 09/30/09
 Sampling Date: 09/22/09
 Sample Type: WATER
 Sample Condition: COOL & INTACT @ 1.5°C
 Sample Received By: ML
 Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18305-2	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.020	98.7	0.020

	% Recovery
Dibromofluoromethane	90.6
Toluene-d8	107
4-Bromofluorobenzene	107

 METHODS: EPA SW-846-8260.
 Not accredited for Naphthalene.


 Chemist


 Date



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: 09/24/09

Reporting Date: 09/26/09

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: 09/22/08

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: HM

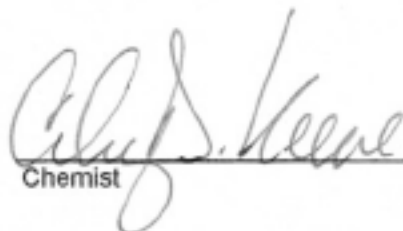
LAB NO.	SAMPLE ID	TDS (mg/L)	Cl (mg/L)
Analysis Date:		09/25/09	09/25/09
H18305-1	MW-1-d	447	64
H18305-2	MW-1-s	1,760	570
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		2.4	< 0.1

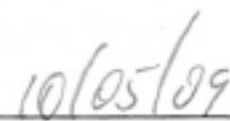
METHOD: EPA 600/4-79-020

160.1

SM4500-Cl-B

Not accredited for Chloride and TDS.


Cheryl S. Keene
Chemist


Date

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ARDINAL LABORATORIES

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

December 22, 2009

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H18888, received by the laboratory on 12/16/09 at 9:00 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



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: 12/16/09

Reporting Date: 12/17/09

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: 12/11/08

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: CK

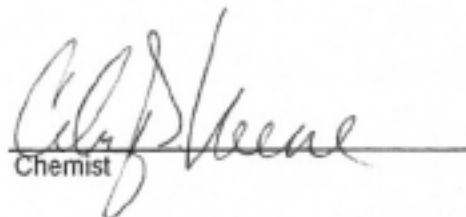
Analyzed By: HM

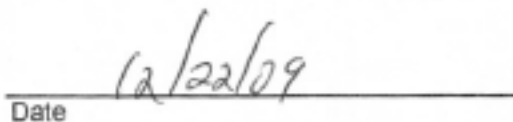
LAB NO.	SAMPLE ID	TDS (mg/L)	Cl ⁻ (mg/L)
Analysis Date:		12/16/09	12/16/09
H18888-1	MW-1-d	505	60
H18888-2	MW-1-s	2,200	770
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		1.8	< 0.1

METHOD: EPA 600/4-79-020

160.1 SM4500-Cl-B

Not accredited for TDS and Chloride.


Chemist


Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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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: 12/16/09
Reporting Date: 12/18/09
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY, NM
Sample ID: MW-1D
Lab Number: H18888-1

Analysis Date: 12/16/09
Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @1.5°C
Sample Received By: CK
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18888-1	Method Blank	QC	%Recov.	True Value QC
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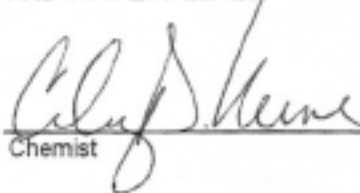
Benzene	<0.001	<0.001	0.021	105	0.020
Toluene	<0.001	<0.001	0.021	105	0.020
Ethylbenzene	<0.001	<0.001	0.022	110	0.020
m+p - Xylene	<0.002	<0.002	0.042	105	0.040
o-Xylene	<0.001	<0.001	0.020	100	0.020


% Recovery

Dibromofluoromethane	99.7
Toluene-d8	96.2
4-Bromofluorobenzene	94.0

METHODS: EPA SW-846-8260.

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


Chemist


Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Receiving Date: 12/16/09
Reporting Date: 12/18/09
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY, NM
Sample ID: MW-1D
Lab Number: H18888-1

Analysis Date: 12/16/09
Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @1.5°C
Sample Received By: CK
Analyzed By: ZL

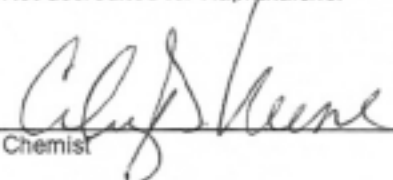
BTEX 8260 (mg/L)	Sample Result H18888-1	Method Blank	QC %Recov.	True Value QC
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Naphthalene	<0.001	<0.001	0.021	105	0.020
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% Recovery

Dibromofluoromethane	99.7
Toluene-d8	96.2
4-Bromofluorobenzene	94.0

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.


Chemist


Date 12/22/09



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

Receiving Date: 12/16/09
Reporting Date: 12/18/09
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY, NM
Sample ID: MW-1S
Lab Number: H18888-2

Analysis Date: 12/16/09
Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @1.5°C
Sample Received By: CK
Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18888-2	Method Blank	QC %Recov.	True Value QC
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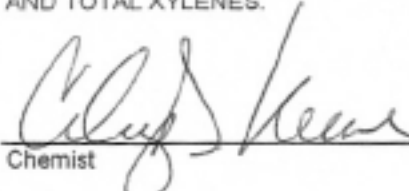
Benzene	<0.001	<0.001	0.021	105	0.020
Toluene	<0.001	<0.001	0.021	105	0.020
Ethylbenzene	<0.001	<0.001	0.022	110	0.020
m+p - Xylene	<0.002	<0.002	0.042	105	0.040
o-Xylene	<0.001	<0.001	0.020	100	0.020


% Recovery

Dibromofluoromethane	120
Toluene-d8	100
4-Bromofluorobenzene	100

METHODS: EPA 8W-845-8260.

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


Chemist


Date



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: 12/16/09
Reporting Date: 12/18/09
Project Number: STATE QE 13 #1
Project Name: PRIDE ENERGY COMPANY
Project Location: T12S-R34E-SEC13 UNIT LETTER O ~
LEA COUNTY, NM
Sample ID: MW-1S
Lab Number: H18888-2

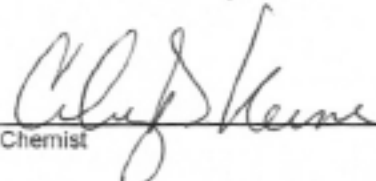
Analysis Date: 12/16/09
Sampling Date: 12/11/09
Sample Type: WATER
Sample Condition: COOL & INTACT @1.5°C
Sample Received By: CK
Analyzed By: ZL


BTEX 8260 (mg/L)	Sample Result H18888-2	Method Blank	QC	%Recov.	True Value QC
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Naphthalene	<0.001	<0.001	0.021	105	0.020
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% Recovery	
Dibromofluoromethane	120
Toluene-d8	100
4-Bromofluorobenzene	100

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.


Chemist


Date

April 1, 2010

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H19560, received by the laboratory on 03/29/10 at 10:20 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,


Celey D. Keene
Laboratory Director



CARDINAL 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: 03/29/10

Reporting Date: 03/30/10

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: 03/25/10

Sample Type: WATER

Sample Condition: COOL & INTACT @ -1.0°C

Sample Received By: JH


Analyzed By: HM

LAB NO.	SAMPLE ID	TDS (mg/L)	Cl ⁻ (mg/L)
Analysis Date:		03/29/10	03/29/10
H19560-1	MW-1-d	469	60
H19560-2	MW-1-s	1,760	530
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		6.2	< 0.1

METHOD: EPA 600/4-79-020

160.1 SM4500-Cl-B

Not accredited for TDS and Chloride.


Cheryl Heene
Chemist


Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

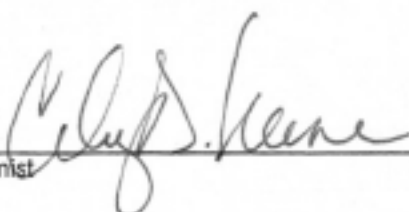
 Receiving Date: 03/29/10
 Reporting Date: 03/31/10
 Project Number: STATE QE 13 #1
 Project Name: YATES PETROLEUM
 Project Location: T12S-R34E-SEC13 UNIT LETTER O
 LEA COUNTY, NM
 Sample ID: MW-1-D
 Lab Number: H19560-1

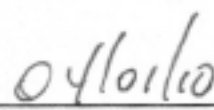
 Analysis Date: 03/30/10
 Sampling Date: 03/25/10
 Sample Type: WATER
 Sample Condition: COOL & INTACT @ -1°C
 Sample Received By: JH
 Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H19560-1	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.010	101	0.010

% Recovery	
Dibromofluoromethane	111
Toluene-d8	113
4-Bromofluorobenzene	95.6

 METHODS: EPA SW-846-8260.
 Not accredited for Naphthalene.


 Chemist


 Date



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

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

Receiving Date: 03/29/10
Reporting Date: 03/31/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H19560-2

Analysis Date: 03/30/10
Sampling Date: 03/25/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ -1°C
Sample Received By: JH
Analyzed By: ZL

BTX 8260 (mg/L)	Sample Result H19560-2	Method Blank	QC		True Value QC
			QC	%Recov.	
Benzene	<0.001	<0.001	0.012	118	0.010
Toluene	<0.001	<0.001	0.011	109	0.010
Ethylbenzene	<0.001	<0.001	0.010	99.0	0.010
m+p - Xylene	<0.002	<0.002	0.021	107	0.020
o-Xylene	<0.001	<0.001	0.011	113	0.010

% Recovery

Dibromofluoromethane	117
Toluene-d8	112
4-Bromofluorobenzene	101

METHODS: EPA SW-846-8260.

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



Chemist

04/01/10

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: 03/29/10
Reporting Date: 03/31/10
Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM
Project Location: T12S-R34E-SEC13 UNIT LETTER O
LEA COUNTY, NM
Sample ID: MW-1-S
Lab Number: H19560-2

Analysis Date: 03/30/10
Sampling Date: 03/25/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ -1°C
Sample Received By: JH
Analyzed By: ZL

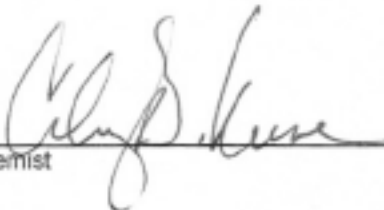
BTEX 8260 (mg/L)	Sample Result H19560-2	Method Blank	QC	%Recov.	True Value QC
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Naphthalene	<0.001	<0.001	0.010	101	0.010
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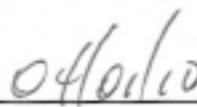
% Recovery

Dibromofluoromethane	117
Toluene-d8	112
4-Bromofluorobenzene	101

METHODS: EPA SW-846-8260.
Not accredited for Naphthalene.



Chemist



Date



ARDINAL LABORATORIES

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

June 24, 2010

Andrew Parker
RT Hicks Consultants
901 Rio Grande Blvd. NW Suite F-142
Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H20153, received by the laboratory on 06/18/10 at 10:02 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

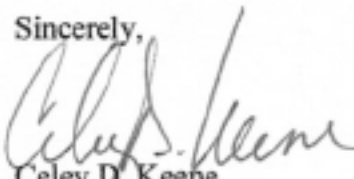
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,



Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.