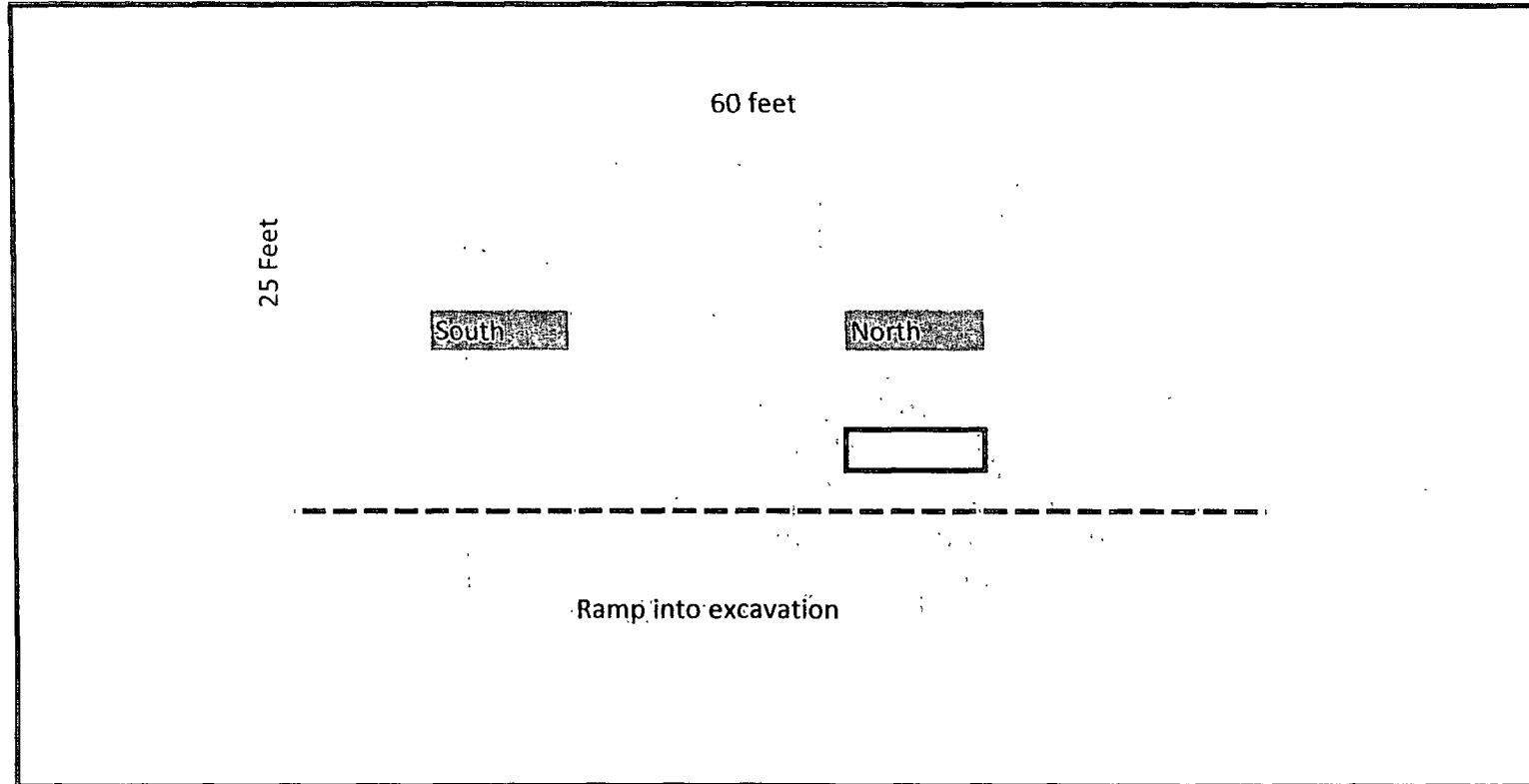


# 10 Mile Unit #1



Removed

SAMPLE	BTEX	GRO	DRO	TPH
North 3'	3.952	293	2050	2343
North 5'	3.546	83.7	435	518.7
North 7'	4.065	145	608	753
North 9'	1.637	54.7	264	318.7
North 11'	0.418	ND	51.2	51.2
North 13'	ND	ND	23	23

Removed

SAMPLE	BTEX	GRO	DRO	TPH
South 3'	6.113	226	899	1125
South 5'	5.919	277	956	1233
South 7'	6.591	59.7	287	346.7
South 9'	56.2	1060	2090	3150
South 11'	1.276	13	57.2	70.2
South 13'	1.119	ND	69.6	69.6

Sampling error



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

---

August 15, 2012

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: TEN MILE UNIT #1

Enclosed are the results of analyses for samples received by the laboratory on 08/08/12 12:45.

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](http://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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	08/08/2012	Sampling Date:	08/07/2012
Reported:	08/15/2012	Sampling Type:	Soil
Project Name:	TEN MILE UNIT #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SOUTH - 3' (H201837-01)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.084</b>	0.050	08/13/2012	ND	1.75	87.4	2.00	3.35	
<b>Toluene*</b>	<b>0.819</b>	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71	
<b>Ethylbenzene*</b>	<b>1.08</b>	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87	
<b>Total Xylenes*</b>	<b>4.13</b>	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16	

*Surrogate 4-Bromofluorobenzene (PIC)*      216 %      89 4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>226</b>	10.0	08/10/2012	ND	191	95.5	200	0.752	
<b>DRO &gt;C10-C28</b>	<b>899</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

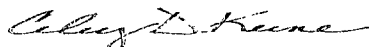
*Surrogate 1-Chlorooctane*      111 %      65 2-140

*Surrogate 1-Chlorooctadecane*      103 %      63 6-154

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

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	08/08/2012	Sampling Date:	08/07/2012
Reported:	08/15/2012	Sampling Type:	Soil
Project Name:	TEN MILE UNIT #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SOUTH - 5' (H201837-02)**

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.107</b>	0.050	08/13/2012	ND	1.75	87.4	2.00	3.35	
<b>Toluene*</b>	<b>0.782</b>	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71	
<b>Ethylbenzene*</b>	<b>1.11</b>	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87	
<b>Total Xylenes*</b>	<b>3.92</b>	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16	

Surrogate: 4-Bromofluorobenzene (PIE) 194 % 89 4-126

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>277</b>	10.0	08/10/2012	ND	191	95.5	200	0.752	
<b>DRO &gt;C10-C28</b>	<b>956</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

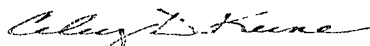
Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63 6-154

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

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

 Received: 08/08/2012  
 Reported: 08/15/2012  
 Project Name: TEN MILE UNIT #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SOUTH - 7' (H201837-03)**

BTEX 8021B	mg/kg	Analyzed By: AP						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.121</b>	0.050	08/14/2012	ND	1.75	87.4	2.00	3.35	
<b>Toluene*</b>	<b>1.26</b>	0.150	08/14/2012	ND	1.99	99.7	2.00	3.71	
<b>Ethylbenzene*</b>	<b>1.08</b>	0.050	08/14/2012	ND	1.98	99.0	2.00	3.87	
<b>Total Xylenes*</b>	<b>4.13</b>	0.150	08/14/2012	ND	5.92	98.7	6.00	4.16	

Surrogate 4-Bromofluorobenzene (PIE) 193 % 89 4-126

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>59.7</b>	10.0	08/10/2012	ND	191	95.5	200	0.752	
<b>DRO &gt;C10-C28</b>	<b>287</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

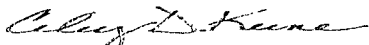
Surrogate 1-Chlorooctane 95.7 % 65 2-140

Surrogate 1-Chlorooctadecane 86.4 % 63 6-154

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

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	08/08/2012	Sampling Date:	08/07/2012
Reported:	08/15/2012	Sampling Type:	Soil
Project Name:	TEN MILE UNIT #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SOUTH - 9' (H201837-04)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.15</b>	0.200	08/14/2012	ND	1.75	87.4	2.00	3.35	
<b>Toluene*</b>	<b>15.5</b>	0.600	08/14/2012	ND	1.99	99.7	2.00	3.71	
<b>Ethylbenzene*</b>	<b>6.45</b>	0.200	08/14/2012	ND	1.98	99.0	2.00	3.87	
<b>Total Xylenes*</b>	<b>33.1</b>	0.600	08/14/2012	ND	5.92	98.7	6.00	4.16	

Surrogate 4-Bromofluorobenzene (PIE) 164 % 89 4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1060</b>	10.0	08/10/2012	ND	191	95.5	200	0.752	
<b>DRO &gt;C10-C28</b>	<b>2090</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

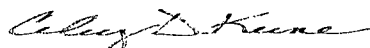
Surrogate 1-Chlorooctane 135 % 65 2-140

Surrogate 1-Chlorooctadecane 122 % 63 6-154

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

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

 Received: 08/08/2012  
 Reported: 08/15/2012  
 Project Name: TEN MILE UNIT #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SOUTH - 11' (H201837-05)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2012	ND	1.75	87.4	2.00	3.35	
Toluene*	<b>0.322</b>	0.150	08/14/2012	ND	1.99	99.7	2.00	3.71	
Ethylbenzene*	<b>0.157</b>	0.050	08/14/2012	ND	1.98	99.0	2.00	3.87	
Total Xylenes*	<b>0.787</b>	0.150	08/14/2012	ND	5.92	98.7	6.00	4.16	

Surrogate 4-Bromofluorobenzene (PIE) 123 % 89 4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>13.0</b>	10.0	08/10/2012	ND	191	95.5	200	0.752	
DRO >C10-C28	<b>57.2</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

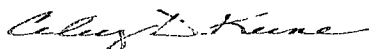
Surrogate 1-Chlorooctane 92.7 % 65 2-140

Surrogate 1-Chlorooctadecane 93.8 % 63 6-154

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

**Analytical Results For:**

Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	08/08/2012	Sampling Date:	08/07/2012
Reported:	08/15/2012	Sampling Type:	Soil
Project Name:	TEN MILE UNIT #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SOUTH - 13' (H201837-06)**

BTX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2012	ND	1.75	87.4	2.00	3.35	
Toluene*	<b>0.270</b>	0.150	08/14/2012	ND	1.99	99.7	2.00	3.71	
Ethylbenzene*	<b>0.154</b>	0.050	08/14/2012	ND	1.98	99.0	2.00	3.87	
Total Xylenes*	<b>0.695</b>	0.150	08/14/2012	ND	5.92	98.7	6.00	4.16	

Surrogate 4-Bromofluorobenzene (PIC) 120 % 89 4-126

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/10/2012	ND	191	95.5	200	0.752	
DRO >C10-C28	<b>69.6</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

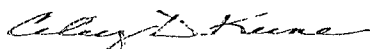
Surrogate 1-Chlorooctane 88 0 % 65 2-140

Surrogate 1-Chlorooctadecane 89 7 % 63 6-154

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**

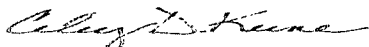
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-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

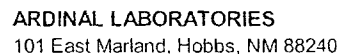
\* = Accredited Analyte

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 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



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Ten Mile Unit #1

Project #:

Project Loc:

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail. [atrujillo@yatespetroleum.com](mailto:atrujillo@yatespetroleum.com)

Page 9 of 9



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

---

August 13, 2012

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: TEN MILE UNIT #1

Enclosed are the results of analyses for samples received by the laboratory on 08/08/12 12:40.

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](http://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,

A handwritten signature in black ink, reading "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

 Received: 08/08/2012  
 Reported: 08/13/2012  
 Project Name: TEN MILE UNIT #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH - 3' (H201836-01)**

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2012	ND	1.75	87.4	2.00	3.35	
Toluene*	0.290	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71	
Ethylbenzene*	0.512	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87	
Total Xylenes*	3.15	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16	

Surrogate 4-Bromofluorobenzene (PIC) 173 % 89 4-126

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	293	10.0	08/10/2012	ND	191	95.5	200	0.752	
DRO >C10-C28	2050	10.0	08/10/2012	ND	192	96.1	200	3.08	

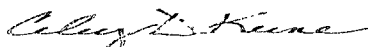
Surrogate 1-Chlorooctane 154 % 65 2-140

Surrogate 1-Chlorooctadecane 155 % 63 6-154

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.



Coley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

 Received: 08/08/2012  
 Reported: 08/13/2012  
 Project Name: TEN MILE UNIT #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH - 5' (H201836-02)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.137</b>	0.050	08/13/2012	ND	1.75	87.4	2.00	3.35	
<b>Toluene*</b>	<b>0.770</b>	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71	
<b>Ethylbenzene*</b>	<b>0.569</b>	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87	
<b>Total Xylenes*</b>	<b>2.07</b>	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16	

Surrogate 4-Bromofluorobenzene (PIL) 141 % 89 4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>83.7</b>	10.0	08/10/2012	ND	191	95.5	200	0.752	
<b>DRO &gt;C10-C28</b>	<b>435</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

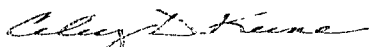
Surrogate 1-Chlorooctane 122 % 65 2-140

Surrogate 1-Chlorooctadecane 122 % 63,6-154

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

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

 Received: 08/08/2012  
 Reported: 08/13/2012  
 Project Name: TEN MILE UNIT #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH - 7' (H201836-03)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.064</b>	0.050	08/13/2012	ND	1.75	87.4	2.00	3.35	
<b>Toluene*</b>	<b>0.789</b>	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71	
<b>Ethylbenzene*</b>	<b>0.842</b>	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87	
<b>Total Xylenes*</b>	<b>2.37</b>	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16	

Surrogate 4-Bromofluorobenzene (PIE) 151 % 89 4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>145</b>	10.0	08/10/2012	ND	191	95.5	200	0.752	
<b>DRO &gt;C10-C28</b>	<b>608</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

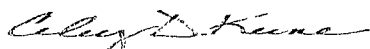
Surrogate 1-Chlorooctane 128 % 65 2-140

Surrogate 1-Chlorooctadecane 137 % 63 6-154

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

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

 Received: 08/08/2012  
 Reported: 08/13/2012  
 Project Name: TEN MILE UNIT #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH - 9' (H201836-04)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2012	ND	1.75	87.4	2.00	3.35	
Toluene*	<b>0.323</b>	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71	
Ethylbenzene*	<b>0.284</b>	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87	
Total Xylenes*	<b>1.03</b>	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16	

Surrogate 4-Bromofluorobenzene (PIC) 123 % 89 4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>54.7</b>	10.0	08/10/2012	ND	191	95.5	200	0.752	
DRO >C10-C28	<b>264</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

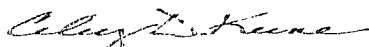
Surrogate 1-Chlorooctane 134 % 65 2-140

Surrogate 1-Chlorooctadecane 135 % 63 6-154

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

**Analytical Results For:**

Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received: 08/08/2012  
 Reported: 08/13/2012  
 Project Name: TEN MILE UNIT #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 08/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH - 11' (H201836-05)**

BTEx 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2012	ND	1.75	87.4	2.00	3.35	
Toluene*	<0.150	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71	
Ethylbenzene*	<b>0.073</b>	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87	
<b>Total Xylenes*</b>	<b>0.345</b>	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16	

Surrogate 4-Bromofluorobenzene (PIE) 107 % 89 4-126

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/10/2012	ND	191	95.5	200	0.752	
<b>DRO &gt;C10-C28</b>	<b>51.2</b>	10.0	08/10/2012	ND	192	96.1	200	3.08	

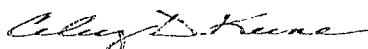
Surrogate 1-Chlorooctane 125 % 65 2-140

Surrogate 1-Chlorooctadecane 126 % 63 6-154

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



**Analytical Results For:**

Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received: 08/08/2012  
 Reported: 08/13/2012  
 Project Name: TEN MILE UNIT #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 08/07/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH - 13' (H201836-06)**

BTEx 8021B			mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2012	ND	1.75	87.4	2.00	3.35		
Toluene*	<0.150	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71		
Ethylbenzene*	<0.050	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87		
Total Xylenes*	<0.150	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16		

Surrogate 4-Bromofluorobenzene (PIE) 101 % 89 4-126

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/10/2012	ND	191	95.5	200	0.752	
DRO >C10-C28	23.0	10.0	08/10/2012	ND	192	96.1	200	3.08	

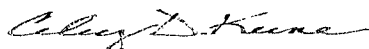
Surrogate 1-Chlorooctane 113 % 65 2-140

Surrogate 1-Chlorooctadecane 113 % 63 6-154

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

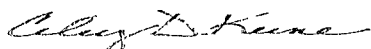
**Notes and Definitions**

S-01	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 SM4500Cl-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 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**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Project Manager: Amanda TrujilloProject Name: Ten Mile Unit #1Comp: (505) 393-2326 Yates Petroleum Corporation

Project #:

Company Address: 105 South 4th Street

Project Loc:

City/State/Zip: Artesia, NM 88210

PO #:

Telephone No: 575-748-1471

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: [Signature]e-mail atrujillo@yatespetroleum.com

(lab use only)

ORDER #:

H201836

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Petroleum Specify Other	TPH+ 418 1 8015M 900	TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	BTEX, CHL, 1,2,4-THZ/5030 or BTEX 8260	RCI	N.O.R.M	Chlorides	SAR	RUSH TAT (pre-Schedule) 24, 48, 72 hrs	Standard TAT		
1	North - 3'																X								X								X
2	North - 5'																X								X								X
3	North - 7'																X								X								X
4	North - 9'																X								X								X
5	North - 11'																X								X								X
6	North - 13'																X								X								X

Special Instructions:

Laboratory Comments.

Sample Containers Intact? ☒ NVOCs Free of Headspace? ☒ NLabels on container(s) ☒ NCustody seals on container(s) ☒ NCustody seals on cooler(s) ☒ NSample Hand Delivered ☒ Nby Sampler/Client Rep. ☒ Nby Courier? ☒ UPS ☐ DHL ☐ FedEx ☐ Lone StarTemperature Upon Receipt: 20 °C