

2 RP-1424



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

Analytical Results For:

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

Received: 11/28/2012 Sampling Date: 11/28/2012
Reported: 11/29/2012 Sampling Type: Soil
Project Name: DAYTON WATER LINE Sampling Condition: Cool & Intact
Project Number: 103-2636 Sample Received By: Jodi Henson
Project Location: EDDY COUNTY, NM

Sample ID: BOTTOM 11' (H202868-03)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride, SM4500CI-B

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows: GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.3 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Handwritten signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Received:	11/28/2012	Sampling Date:	11/28/2012
Reported:	11/29/2012	Sampling Type:	Soil
Project Name:	DAYTON WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2636	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: BOTTOM 9' (H202868-02)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.083</b>	0.050	11/28/2012	ND	1.78	89.0	2.00	25.1		
<b>Toluene*</b>	<b>0.099</b>	0.050	11/28/2012	ND	2.38	119	2.00	2.75		
Ethylbenzene*	<0.050	0.050	11/28/2012	ND	2.57	128	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/28/2012	ND	7.72	129	6.00	5.77		
Total BTEX	<0.300	0.300	11/28/2012	ND						

*Surrogate: 4-Bromofluorobenzene (PIC) 121 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>14200</b>	16.0	11/29/2012	ND	400	100	400	3.92		

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	11/28/2012	ND	181	90.5	200	1.11		
DRO >C10-C28	<10.0	10.0	11/28/2012	ND	190	94.9	200	2.41		

*Surrogate: 1-Chlorooctane 81.1 % 63.2-140*
*Surrogate: 1-Chlorooctadecane 91.7 % 63.6-154*

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Celey D. Keene, Lab Director/Quality Manager

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 Fax To: (505) 748-4635

 Received: 11/28/2012  
 Reported: 11/29/2012  
 Project Name: DAYTON WATER LINE  
 Project Number: 103-2636  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/28/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BOTTOM 7' (H202868-01)**

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	11/28/2012	ND	1.78	89.0	2.00	25.1		
Toluene*	<0.050	0.050	11/28/2012	ND	2.38	119	2.00	2.75		
Ethylbenzene*	<0.050	0.050	11/28/2012	ND	2.57	128	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/28/2012	ND	7.72	129	6.00	5.77		
Total BTEX	<0.300	0.300	11/28/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 124 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20800	16.0	11/29/2012	ND	400	100	400	3.92		

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	11/28/2012	ND	181	90.5	200	1.11		
DRO >C10-C28	<10.0	10.0	11/28/2012	ND	190	94.9	200	2.41		

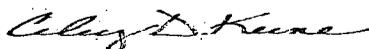
Surrogate: 1-Chlorooctane 86.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

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Received:	11/28/2012	Sampling Date:	11/28/2012
Reported:	11/29/2012	Sampling Type:	Soil
Project Name:	DAYTON WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2636	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SOUTH WALL (H202868-05)**

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	11/29/2012	ND	1.78	89.0	2.00	25.1	
Toluene*	<0.050	0.050	11/29/2012	ND	2.38	119	2.00	2.75	
Ethylbenzene*	<0.050	0.050	11/29/2012	ND	2.57	128	2.00	7.65	
Total Xylenes*	<0.150	0.150	11/29/2012	ND	7.72	129	6.00	5.77	
Total BTEX	<0.300	0.300	11/29/2012	ND					

*Surrogate: 4-Bromofluorobenzene (PIC) 121 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>5200</b>	16.0	11/29/2012	ND	400	100	400	3.92	

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	11/28/2012	ND	193	96.4	200	1.70	
DRO >C10-C28	<10.0	10.0	11/28/2012	ND	208	104	200	1.70	

*Surrogate: 1-Chlorooctane 88.9 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 101 % 63.6-154*

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 Fax To: (505) 748-4635

 Received: 11/28/2012  
 Reported: 11/29/2012  
 Project Name: DAYTON WATER LINE  
 Project Number: 103-2636  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/28/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH WALL (H202868-04)**

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	11/29/2012	ND	1.78	89.0	2.00	25.1		
Toluene*	<0.050	0.050	11/29/2012	ND	2.38	119	2.00	2.75		
Ethylbenzene*	<0.050	0.050	11/29/2012	ND	2.57	128	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/29/2012	ND	7.72	129	6.00	5.77		
Total BTEX	<0.300	0.300	11/29/2012	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	11/29/2012	ND	400	100	400	3.92		

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	11/28/2012	ND	193	96.4	200	1.70		
DRO >C10-C28	<10.0	10.0	11/28/2012	ND	208	104	200	1.70		

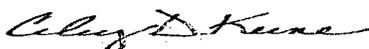
Surrogate: 1-Chlorooctane 86.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



November 29, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: DAYTON WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/28/12 14:55.

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 written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

### Notes and Definitions

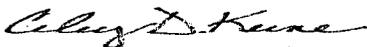
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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