

Stock Pile Sampling

Analytical Report H201734	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
SP1 1	7/26/2012	2'	ND	ND	49.5	49.5	-
SP1 2	7/26/2012	2'	ND	ND	11.4	11.4	-

SP2 1	7/26/2012	2'	.401	14.8	320	334.8	-
SP2 2	7/26/2012	2'	ND	ND	143	143	-

SP3 1	7/26/2012	2'	ND	ND	ND	ND	-
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SP4 1	7/26/2012	2'	ND	ND	46.8	46.8	-
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SP5 1	7/26/2012	2'	ND	ND	29.7	29.7	-
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SP6 1	7/26/2012	2'	2.518	48.3	664	712.3	-
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Site Ranking is Ten (10). Depth to Ground Water <100' (approx. 95', per NMOSE).

All results are ppm.Chlorides for documentation.

Released: 53 B/O; Recovered: 0 B/O. Release Date: 5/29/2012





August 02, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: BOYD X

Enclosed are the results of analyses for samples received by the laboratory on 07/26/12 15:00.

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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/26/2012
 Reported: 08/02/2012
 Project Name: BOYD X
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP1 - 1 (H201734-01)

BTEX 8021B			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2012	ND	1.78	89.2	2.00	6.39		
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31		
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09		
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41		

Surrogate: 4-Bromofluorobenzene (PIE) 98.4 % 89.4-126

TPH 8015M			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/27/2012	ND	188	93.8	200	6.58		
DRO >C10-C28	49.5	10.0	07/27/2012	ND	204	102	200	8.91		

Surrogate: 1-Chlorooctane 94.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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

 Received: 07/26/2012
 Reported: 08/02/2012
 Project Name: BOYD X
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP1 - 2 (H201734-02)

BTEX 8021B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 89.4-126

TPH 8015M			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	11.4	10.0	07/27/2012	ND	204	102	200	8.91	

Surrogate: 1-Chlorooctane 93.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Analytical Results For:

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

Received:	07/26/2012	Sampling Date:	07/26/2012
Reported:	08/02/2012	Sampling Type:	Soil
Project Name:	BOYD X	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP2 - 1 (H201734-03)

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	08/01/2012	ND	1.78	89.2	2.00	6.39		
Toluene*	0.094	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31		
Ethylbenzene*	0.107	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09		
Total Xylenes*	0.200	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41		

Surrogate: 4-Bromofluorobenzene (PIL) 117 % 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	14.8	10.0	07/27/2012	ND	188	93.8	200	6.58		
DRO >C10-C28	320	10.0	07/27/2012	ND	204	102	200	8.91		

Surrogate: 1-Chlorooctane 99.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 07/26/2012
 Reported: 08/02/2012
 Project Name: BOYD X
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP2 - 2 (H201734-04)

BTEX 8021B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

TPH 8015M			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	143	10.0	07/27/2012	ND	204	102	200	8.91	

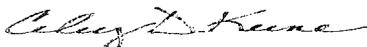
Surrogate: 1-Chlorooctane 94.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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 JEREMY HAASS
 105 S 4th Street
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 Fax To: (505) 748-4635

 Received: 07/26/2012
 Reported: 08/02/2012
 Project Name: BOYD X
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP3 - 1 (H201734-05)

BTEX 8021B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	

Surrogate: 4-Bromofluorobenzene (PIE) 99.5 % 89.4-126

TPH 8015M			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	<10.0	10.0	07/27/2012	ND	204	102	200	8.91	

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.8 % 63.6-154

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 Fax To: (505) 748-4635

 Received: 07/26/2012
 Reported: 08/02/2012
 Project Name: BOYD X
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP4 - 1 (H201734-06)

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	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	

Surrogate: 4-Bromofluorobenzene (PIE) 98.9 % 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	07/30/2012	ND	183	91.6	200	0.268	
DRO >C10-C28	46.8	10.0	07/30/2012	ND	208	104	200	7.17	

Surrogate: 1-Chlorooctane 90.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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 Received: 07/26/2012
 Reported: 08/02/2012
 Project Name: BOYD X
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP5 - 1 (H201734-07)

BTEX 8021B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	

Surrogate: 4-Bromofluorobenzene (PIE) 98.8 % 89.4-126

TPH 8015M			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/30/2012	ND	183	91.6	200	0.268	
DRO >C10-C28	29.7	10.0	07/30/2012	ND	208	104	200	7.17	

Surrogate: 1-Chlorooctane 94.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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 Fax To: (505) 748-4635

 Received: 07/26/2012
 Reported: 08/02/2012
 Project Name: BOYD X
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP6 - 1 (H201734-08)

BTEX 8021B			Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	0.199	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	0.199	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	2.12	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	

Surrogate: 4-Bromofluorobenzene (PIE) 131 % 89.4-126

TPH 8015M			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	48.3	10.0	07/30/2012	ND	183	91.6	200	0.268	
DRO >C10-C28	664	10.0	07/30/2012	ND	208	104	200	7.17	

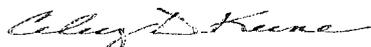
Surrogate: 1-Chlorooctane 99.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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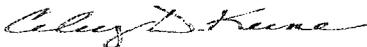
Notes and Definitions

- 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

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