

2RP-1158



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

June 11, 2012

JEREMY HAASS

Yates Energy Petroleum Corp
105 S 4th Street
Artesia, NM 88210

RE: BOYD X STATE COM #12 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/07/12 10:00.

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,

Hope Moreno
Inorganic Technical Director

RECEIVED
JUN 11 2012
NMOCD ARTESIA

Analytical Results For:

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

Received:	06/07/2012	Sampling Date:	06/06/2012
Reported:	06/11/2012	Sampling Type:	Soil
Project Name:	BOYD X STATE COM #12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-28738	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S1 2' (H201271-01)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	139	10.0	06/08/2012	ND	1.71	85.3	2.00	4.32		
Toluene*	345	10.0	06/08/2012	ND	1.71	85.5	2.00	3.11		
Ethylbenzene*	192	10.0	06/08/2012	ND	1.74	86.8	2.00	3.06		
Total Xylenes*	207	30.0	06/08/2012	ND	5.25	87.6	6.00	2.52		

Surrogate 4-Bromofluorobenzene (PIE) 102 % 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	8130	16.0	06/07/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	13000	100	06/07/2012	ND	187	93.3	200	3.69			
DRO >C10-C28	14700	100	06/07/2012	ND	188	93.8	200	4.29			

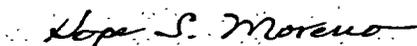
Surrogate. 1-Chlorooctane 473 % 65.2-140

Surrogate. 1-Chlorooctadecane 430 % 63.6-154

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* = Accredited Analyte

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Received:	06/07/2012	Sampling Date:	06/06/2012
Reported:	06/11/2012	Sampling Type:	Soil
Project Name:	BOYD X STATE COM #12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-28738	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S1 4' (H201271-02)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	128	5.00	06/08/2012	ND	1.71	85.3	2.00	4.32		
Toluene*	312	5.00	06/08/2012	ND	1.71	85.5	2.00	3.11		
Ethylbenzene*	170	5.00	06/08/2012	ND	1.74	86.8	2.00	3.06		
Total Xylenes*	187	15.0	06/08/2012	ND	5.25	87.6	6.00	2.52		

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	9860	16.0	06/07/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	6960	50.0	06/07/2012	ND	187	93.3	200	3.69			
DRO >C10-C28	8110	50.0	06/07/2012	ND	188	93.8	200	4.29			

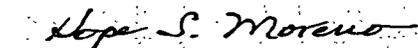
Surrogate 1-Chlorooctane 155 % 65 2-140

Surrogate: 1-Chlorooctadecane 226 % 63 6-154

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 Fax To: (505) 748-4635

Received:	06/07/2012	Sampling Date:	06/06/2012
Reported:	06/11/2012	Sampling Type:	Soil
Project Name:	BOYD X STATE COM #12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-28738	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S1 6' (H201271-03)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	78.6	5.00	06/08/2012	ND	1.71	85.3	2.00	4.32		
Toluene*	235	5.00	06/08/2012	ND	1.71	85.5	2.00	3.11		
Ethylbenzene*	147	5.00	06/08/2012	ND	1.74	86.8	2.00	3.06		
Total Xylenes*	167	15.0	06/08/2012	ND	5.25	87.6	6.00	2.52		

Surrogate 4-Bromofluorobenzene (PIC) 117 % 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	3160	16.0	06/07/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	4260	50.0	06/07/2012	ND	187	93.3	200	3.69			
DRO >C10-C28	5200	50.0	06/07/2012	ND	188	93.8	200	4.29			

Surrogate 1-Chlorooctane 229 % 65 2-140

Surrogate 1-Chlorooctadecane 146 % 63 6-154

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 Fax To: (505) 748-4635

 Received: 06/07/2012
 Reported: 06/11/2012
 Project Name: BOYD X STATE COM #12 BATTERY
 Project Number: 30-015-28738
 Project Location: EDDY COUNTY, NM

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

Sample ID: S1 8' (H201271-04)

BTEX 8021B	mg/kg	Analyzed By: ZZZ					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	55.6	2.50	06/07/2012	ND	1.71	85.3	2.00	4.32		
Toluene*	225	2.50	06/07/2012	ND	1.71	85.5	2.00	3.11		
Ethylbenzene*	148	2.50	06/07/2012	ND	1.74	86.8	2.00	3.06		
Total Xylenes*	176	7.50	06/07/2012	ND	5.25	87.6	6.00	2.52		

Surrogate 4-Bromofluorobenzene (PIE) 129 % 89 4-126

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP					S-06			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	06/07/2012	ND	416	104	400	3.77		

TPH 8015M	mg/kg	Analyzed By: MS					S-06			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3870	100	06/07/2012	ND	187	93.3	200	3.69		
DRO >C10-C28	6440	100	06/07/2012	ND	188	93.8	200	4.29		

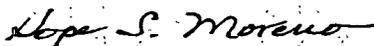
Surrogate 1-Chlorooctane 250 % 65 2-140

Surrogate: 1-Chlorooctadecane 195 % 63 6-154

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Received:	06/07/2012	Sampling Date:	06/06/2012
Reported:	06/11/2012	Sampling Type:	Soil
Project Name:	BOYD X STATE COM #12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-28738	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S1 10' (H201271-05)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	108	5.00	06/08/2012	ND	1.71	85.3	2.00	4.32		
Toluene*	399	5.00	06/08/2012	ND	1.71	85.5	2.00	3.11		
Ethylbenzene*	259	5.00	06/08/2012	ND	1.74	86.8	2.00	3.06		
Total Xylenes*	289	15.0	06/08/2012	ND	5.25	87.6	6.00	2.52		

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 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	5520	16.0	06/07/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	6290	100	06/07/2012	ND	187	93.3	200	3.69			
DRO >C10-C28	9270	100	06/07/2012	ND	188	93.8	200	4.29			

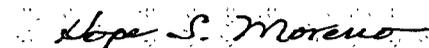
Surrogate: 1-Chlorooctane 171 % 65 2-140

Surrogate: 1-Chlorooctadecane 265 % 63 6-154

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 JEREMY HAASS
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 Fax To: (505) 748-4635

Received:	06/07/2012	Sampling Date:	06/06/2012
Reported:	06/11/2012	Sampling Type:	Soil
Project Name:	BOYD X STATE COM #12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-28738	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S1 12' (H201271-06)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	92.2	5.00	06/08/2012	ND	1.71	85.3	2.00	4.32		
Toluene*	344	5.00	06/08/2012	ND	1.71	85.5	2.00	3.11		
Ethylbenzene*	217	5.00	06/08/2012	ND	1.74	86.8	2.00	3.06		
Total Xylenes*	242	15.0	06/08/2012	ND	5.25	87.6	6.00	2.52		

Surrogate 4-Bromofluorobenzene (PIE) 116 % 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	3040	16.0	06/07/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	5190	100	06/07/2012	ND	187	93.3	200	3.69			
DRO >C10-C28	7260	100	06/07/2012	ND	188	93.8	200	4.29			

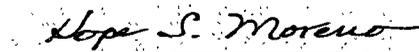
Surrogate 1-Chlorooctane 276 % 65.2-140

Surrogate 1-Chlorooctadecane 213 % 63.6-154

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 JEREMY HAASS
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 Fax To: (505) 748-4635

Received:	06/07/2012	Sampling Date:	06/06/2012
Reported:	06/11/2012	Sampling Type:	Soil
Project Name:	BOYD X STATE COM #12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-28738	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S1 14' (H201271-07)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	45.9	5.00	06/09/2012	ND	1.71	85.3	2.00	4.32		
Toluene*	224	5.00	06/09/2012	ND	1.71	85.5	2.00	3.11		
Ethylbenzene*	160	5.00	06/09/2012	ND	1.74	86.8	2.00	3.06		
Total Xylenes*	185	15.0	06/09/2012	ND	5.25	87.6	6.00	2.52		

Surrogate 4-Bromofluorobenzene (PIC) 112 % 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	208	16.0	06/07/2012	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	4870	100	06/07/2012	ND	187	93.3	200	3.69			
DRO >C10-C28	8090	100	06/07/2012	ND	188	93.8	200	4.29			

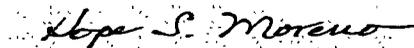
Surrogate 1-Chlorooctane 305 % 65.2-140

Surrogate 1-Chlorooctadecane 231 % 63.6-154

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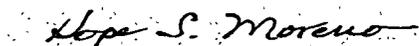
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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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