

May 10, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: FEDERAL 'AB' 13H

Enclosed are the results of analyses for samples received by the laboratory on 05/09/12 15:55.

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,



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: 05/09/2012  
Reported: 05/10/2012  
Project Name: FEDERAL 'AB' 13H  
Project Number: 30-015-37211  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2012  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S1 2' (H201054-01)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	05/10/2012	ND	416	104	400	3.92	

**Sample ID: S1 4' (H201054-02)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/10/2012	ND	416	104	400	3.92	

**Sample ID: S1 6' (H201054-03)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	05/10/2012	ND	416	104	400	3.92	

**Sample ID: S2 2' (H201054-04)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	05/10/2012	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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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: 05/09/2012  
Reported: 05/10/2012  
Project Name: FEDERAL 'AB' 13H  
Project Number: 30-015-37211  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2012  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S2 4' (H201054-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/10/2012	ND	416	104	400	3.92		

**Sample ID: S2 6' (H201054-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/10/2012	ND	416	104	400	3.92	

**Sample ID: S3 2' (H201054-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	05/10/2012	ND	416	104	400	3.92		

**Sample ID: S3 4' (H201054-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	05/10/2012	ND	416	104	400	3.92		

**Sample ID: S3 6' (H201054-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	05/10/2012	ND	416	104	400	3.92		

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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 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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Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**Project Manager: Jeremy HaassProject Name: Federal 'AB' 13HComp: (505) 393-2326 Yates Petroleum CorporationProject #: 30-015-37211Company Address: 105 South 4th StreetProject Loc: EddyCity/State/Zip: Artesia, NM 88210PO #: 103-2636Telephone No: 575-748-4311

Fax No: \_\_\_\_\_

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

(lab use only)

ORDER #: H201054

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-Potable Specify Other	TPH: 418.1 8015M 2015E	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 Se	Volatiles	Semivolatiles	BTEX 8260/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48	Standard TAT
1	S1 2'	2'		5/7/2012			1							X		S													X		X
2	S1 4'	4'					1							X		S													X		X
3	S1 6'	6'					1							X		S													X		X
4	S2 2'	2'					1							X		S													X		X
5	S2 4'	4'					1							X		S													X		X
6	S2 6'	6'					1							X		S													X		X
7	S3 2'	2'					1							X		S													X		X
8	S3 4'	4'					1							X		S													X		X
9	S3 6'	6'					1							X		S													X		X

**Special Instructions:**

Relinquished by: <u>[Signature]</u>	Date: 05/09/12	Time: 10:20 AM	Received by: <u>[Signature]</u>	Date: 5/9/12	Time: 3:55
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by ELOT: _____	Date: _____	Time: _____

**Laboratory Comments:**

Sample Containers Intact? Y N  
VOCs Free of Headpace? Y N  
Labels on container(s) Y N  
Custody seals on container(s) Y N  
Custody seals on cooler(s) Y N  
Sample Hand Delivered by Sampler/Client Rep. ? Y N  
by Courier? UPS DHL FedEx Lone Star  
Temperature Upon Receipt: \_\_\_\_\_