

MARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

JOHN A. YATES
CHAIRMAN OF THE BOARD

JOHN A. YATES JR.
PRESIDENT

SCOTT M. YATES
VICE PRESIDENT

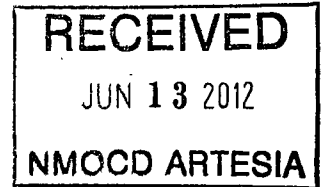
JAMES S. BROWN
CHIEF OPERATING OFFICER

JOHN D. PERINI
CHIEF FINANCIAL OFFICER

JORGE S. MENDOZA
CHIEF ADMINISTRATIVE OFFICER

June 12, 2012

Mr. Mike Bratcher
NMOCD District II
811 S. First Street
Artesia, NM 88210



Re: Achen Frey DM Battery
30-015-24536
Section 14, T17S-R25E
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding releases on March 20, 2012 (2RP-1075) and April 5, 2012 (2RP-1117). The April 5, 2012 release occurred over a small portion of the original release area. Impacted soils within the bermed/unlined battery of to the above mentioned site were excavated and hauled to an NMOCD approved facility. Vertical and horizontal delineation samples were taken and sent to an NMOCD approved laboratory. Enclosed are the analytical reports, results show TPH and BTEX, to be below RRAL's, based on a site ranking of zero (depth to ground water recorded at 135' per NMOSE, Section 14, T17S-R25E); Yates Petroleum Corporation requests closure based on impacted soils excavated/hauled to an approved NMOCD disposal facility and analytical results.

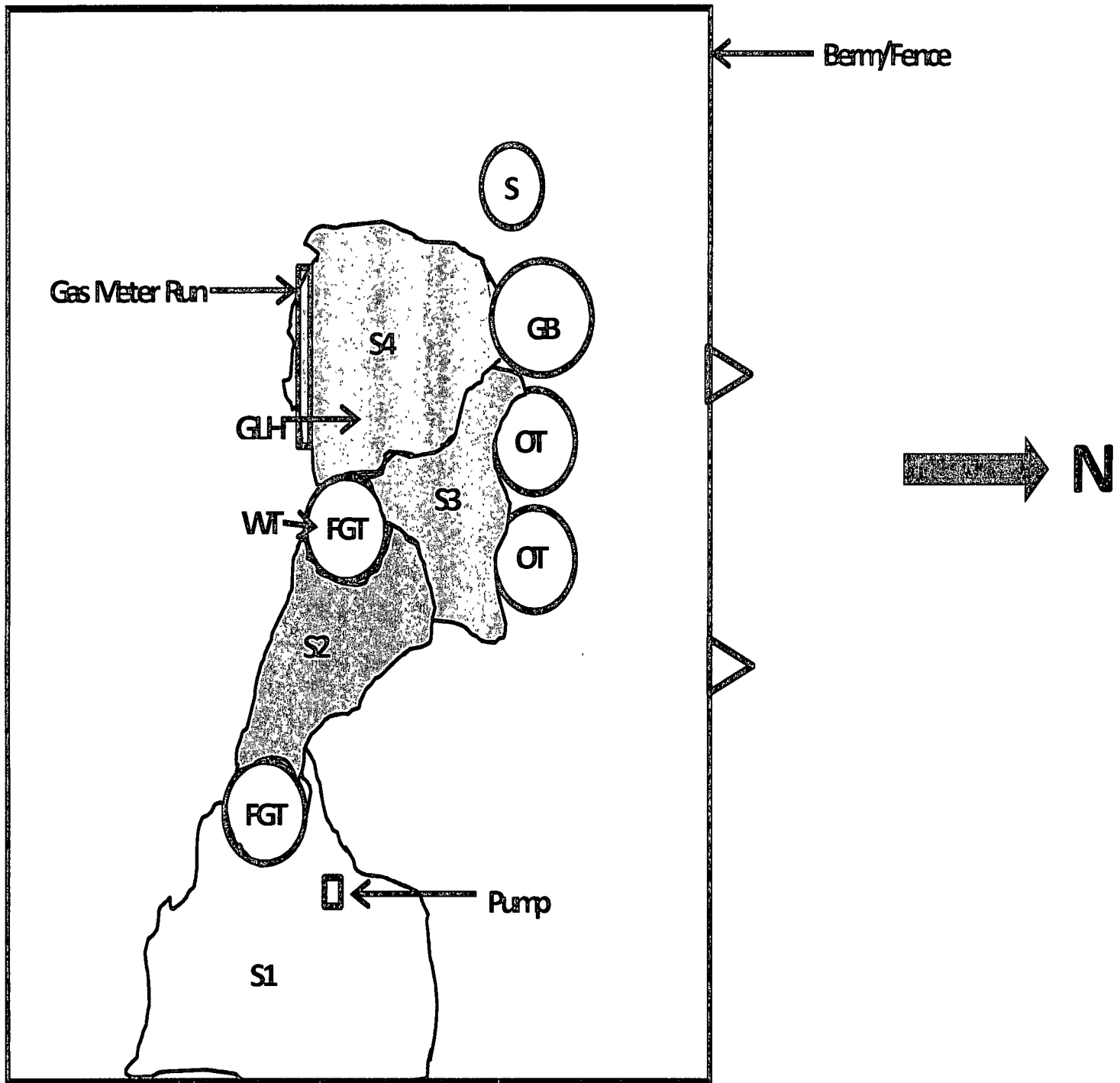
If you have any questions, please call me at 575-748-4111.

Thank you.

YATES PETROLEUM CORPORATION

Amber Cannon
Environmental Regulatory Agent

/anc
Enclosure(s)



Achen Frey DM Battery

30-015-24536

Section 14, T17S-R25E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

Prepared by Amber Cannon
Environmental Regulatory Agent

Achen Frey DM Battery

Analytical Report-H200474	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides	
S1-1	Release Area	3/28/2012	Grab	1'	539.8	11200	13200	24400	11,800	Excavated
S1-2	Release Area	3/28/2012	Grab	2'	162.71	4220	5410	9630	10,000	Excavated
S2-1	Release Area	3/28/2012	Grab	1'	ND	14.7	1800	1814.7	336	
S2-2	Release Area	3/28/2012	Grab	2'	ND	ND	292	292	352	
S3-1	Release Area	3/28/2012	Grab	1'	0.345	37.3	268	305.3	464	
S3-2	Release Area	3/28/2012	Grab	2'	0.071	13.8	140	153.8	608	
S4-1	Release Area	3/28/2012	Grab	1'	1.235	44.5	306	350.5	3,680	Excavated
S4-2	Release Area	3/28/2012	Grab	2'	5.418	444	710	1154	7,860	Excavated

Analytical Report-H200474	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides	
S1-4	Release Area	4/10/2012	Grab	4'	109.29	1770	3660	5430	4,000	Excavated
S1-5	Release Area	4/10/2012	Grab	5'	118.11	1320	2480	3800	2,240	Excavated
WT-1	Release Area	4/10/2012	Grab	1'	0.21	ND	ND	ND	1,100	
GLH-5	Release Area	4/10/2012	Grab	5'	30.71	843	6090	6933	1,070	Excavated
GLH-6	Release Area	4/10/2012	Grab	6'	2.011	ND	581	581	1,600	
S4-4	Release Area	4/10/2012	Grab	4'	24.716	304	662	966	3,360	
S4-5	Release Area	4/10/2012	Grab	5'	28.031	ND	217	217	2,320	

Analytical Report-H201015	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S1-6	Release Area	4/30/2012	Grab	6'	31.858	163	462	625	2,000
S1-7	Release Area	4/30/2012	Grab	7'	20.65	132	406	538	1,310
S1-8	Release Area	4/30/2012	Grab	8'	55.22	501	1150	1651	1,580

Analytical Report-H201180	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S1-9	Release Area	4/30/2012	Grab	9'	ND	ND	ND	ND	1,920
S1-10	Release Area	4/30/2012	Grab	10'	ND	ND	ND	ND	736
S4-6	Release Area	4/30/2012	Grab	6'	N/A	N/A	N/A	N/A	464

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 135', Section 14-17S-25E, per NMOSE).

All results are ppm.Chlorides for documentation.

Released: 35 B/PW, 11 B/O; Recovered: 30 B/PW, 11 B/O. Release Date: 3/20/2012

April 03, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ACHEN FREY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/29/12 9:40.

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.

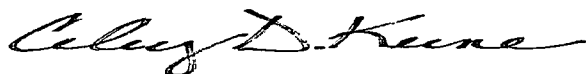
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Received: 03/29/2012
Reported: 04/03/2012
Project Name: ACHEN FREY BATTERY
Project Number: 30-015-24536
Project Location: EDDY COUNTY, NM

Sampling Date: 03/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 1 (H200745-01)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	11800	16.0	03/30/2012	ND	432	108	400	3.64			

Sample ID: S1 - 2 (H200745-02)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	10000	16.0	03/30/2012	ND	432	108	400	3.64			

Sample ID: S2 - 1 (H200745-03)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	336	16.0	03/30/2012	ND	432	108	400	3.64			

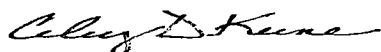
Sample ID: S2 - 2 (H200745-04)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	352	16.0	03/30/2012	ND	432	108	400	3.64			

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

 Received: 03/29/2012
 Reported: 04/03/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/28/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 - 1 (H200745-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/30/2012	ND	432	108	400	3.64	

Sample ID: S3 - 2 (H200745-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	03/30/2012	ND	432	108	400	3.64	

Sample ID: S4 - 1 (H200745-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	03/30/2012	ND	432	108	400	3.64	

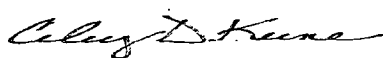
Sample ID: S4 - 2 (H200745-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	03/30/2012	ND	432	108	400	3.64	

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

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.

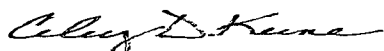
*** Insufficient time to reach temperature.

- 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



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Project Name: Achen Frey Battery

Company Name: Yates Petroleum Corporation

Project #: 30-015-24536

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)

ORDER #:

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers										Matrix	Analyze For:															RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
									Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Portable Specify Other	TPH: 418, 1 8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
(lab use only)		ORDER #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

Special Instructions:

Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you.

Laboratory Comments:

Sample Containers Intact? ☒ Y ☐ N
VOCs Free of Headspace? ☒ 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: _____ °C

Relinquished by:	Date	Time	Received by:	Date	Time
<u>Amber Cannon</u>	<u>3/29/12</u>	<u>9:40</u>	<u>John Jensen</u>		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT	Date	Time



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

April 03, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ACHEN FREY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/29/12 9:40.

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.

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

 Received: 03/29/2012
 Reported: 04/03/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/28/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - 1 (H200745-01)

BTEx 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.8	1.00	03/30/2012	ND	1.97	98.3	2.00	4.99	
Toluene*	85.3	1.00	03/30/2012	ND	2.11	105	2.00	5.41	
Ethylbenzene*	81.7	1.00	03/30/2012	ND	2.13	106	2.00	5.66	
Total Xylenes*	358	3.00	03/30/2012	ND	6.66	111	6.00	6.07	

Surrogate: 4-Bromofluorobenzene (PIL) 155 % 64.4-134

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	11200	100	03/29/2012	ND	182	91.0	200	26.2	
DRO >C10-C28	13200	100	03/29/2012	ND	184	92.0	200	4.12	

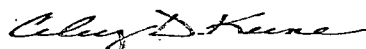
Surrogate: 1-Chlorooctane 199 % 55.5-154

Surrogate: 1-Chlorooctadecane 110 % 57.6-158

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

Received: 03/29/2012
Reported: 04/03/2012
Project Name: ACHEN FREY BATTERY
Project Number: 30-015-24536
Project Location: EDDY COUNTY, NM

Sampling Date: 03/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 2 (H200745-02)

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.61	0.500	03/30/2012	ND	1.97	98.3	2.00	4.99	
Toluene*	23.3	0.500	03/30/2012	ND	2.11	105	2.00	5.41	
Ethylbenzene*	24.8	0.500	03/30/2012	ND	2.13	106	2.00	5.66	
Total Xylenes*	111	1.50	03/30/2012	ND	6.66	111	6.00	6.07	

Surrogate: 4-Bromofluorobenzene (PIL) 152 % 64 4-134

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	4220	100	03/29/2012	ND	182	91.0	200	26.2	
DRO >C10-C28	5410	100	03/29/2012	ND	184	92.0	200	4.12	

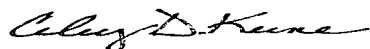
Surrogate: 1-Chlorooctane 217 % 55 5-154

Surrogate: 1-Chlorooctadecane 115 % 57 6-158

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

Received:	03/29/2012	Sampling Date:	03/28/2012
Reported:	04/03/2012	Sampling Type:	Soil
Project Name:	ACHEN FREY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-24536	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S2 - 1 (H200745-03)

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	04/03/2012	ND	1.97	98.3	2.00	4.99		
Toluene*	<0.050	0.050	04/03/2012	ND	2.11	105	2.00	5.41		
Ethylbenzene*	<0.050	0.050	04/03/2012	ND	2.13	106	2.00	5.66		
Total Xylenes*	<0.150	0.150	04/03/2012	ND	6.66	111	6.00	6.07		

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 64.4-134

TPH 8015M		mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	14.7	10.0	03/29/2012	ND	182	91.0	200	26.2		
DRO >C10-C28	1800	10.0	03/29/2012	ND	184	92.0	200	4.12		

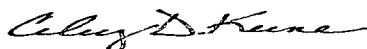
Surrogate: 1-Chlorooctane 112 % 55.5-154

Surrogate: 1-Chlorooctadecane 116 % 57.6-158

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

Received:	03/29/2012	Sampling Date:	03/28/2012
Reported:	04/03/2012	Sampling Type:	Soil
Project Name:	ACHEN FREY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-24536	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S2 - 2 (H200745-04)

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	03/30/2012	ND	1.97	98.3	2.00	4.99	
Toluene*	<0.050	0.050	03/30/2012	ND	2.11	105	2.00	5.41	
Ethylbenzene*	<0.050	0.050	03/30/2012	ND	2.13	106	2.00	5.66	
Total Xylenes*	<0.150	0.150	03/30/2012	ND	6.66	111	6.00	6.07	

Surrogate: 4-Bromofluorobenzene (PIL) 97.2 % 64 4-134

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	03/29/2012	ND	182	91.0	200	26.2	
DRO >C10-C28	292	10.0	03/29/2012	ND	184	92.0	200	4.12	

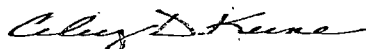
Surrogate: 1-Chlorooctane 120 % 55 5-154

Surrogate: 1-Chlorooctadecane 104 % 57 6-158

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.



Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/29/2012	Sampling Date:	03/28/2012
Reported:	04/03/2012	Sampling Type:	Soil
Project Name:	ACHEN FREY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-24536	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S3 - 1 (H200745-05)

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	04/03/2012	ND	1.86	93.1	2.00	14.3	
Toluene*	0.139	0.050	04/03/2012	ND	2.02	101	2.00	14.3	
Ethylbenzene*	<0.050	0.050	04/03/2012	ND	2.05	102	2.00	14.4	
Total Xylenes*	0.206	0.150	04/03/2012	ND	6.34	106	6.00	14.9	

Surrogate 4-Bromofluorobenzene (PIL) 103 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	37.3	10.0	03/29/2012	ND	182	91.0	200	26.2	
DRO >C10-C28	268	10.0	03/29/2012	ND	184	92.0	200	4.12	

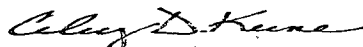
Surrogate 1-Chlorooctane 128 % 55.5-154

Surrogate 1-Chlorooctadecane 109 % 57.6-158

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

Received: 03/29/2012
Reported: 04/03/2012
Project Name: ACHEN FREY BATTERY
Project Number: 30-015-24536
Project Location: EDDY COUNTY, NM

Sampling Date: 03/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3 - 2 (H200745-06)

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	04/03/2012	ND	1.86	93.1	2.00	14.3	
Toluene*	0.071	0.050	04/03/2012	ND	2.02	101	2.00	14.3	
Ethylbenzene*	<0.050	0.050	04/03/2012	ND	2.05	102	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/03/2012	ND	6.34	106	6.00	14.9	

Surrogate 4-Bromofluorobenzene (PIL) 104 % 64 4-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.8	10.0	03/29/2012	ND	182	91.0	200	26.2	
DRO >C10-C28	140	10.0	03/29/2012	ND	184	92.0	200	4.12	

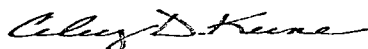
Surrogate 1-Chlorooctane 119 % 55.5-154

Surrogate 1-Chlorooctadecane 111 % 57 6-158

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

Received: 03/29/2012
 Reported: 04/03/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

Sampling Date: 03/28/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4 - 1 (H200745-07)

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	04/03/2012	ND	1.86	93.1	2.00	14.3	
Toluene*	<0.050	0.050	04/03/2012	ND	2.02	101	2.00	14.3	
Ethylbenzene*	0.165	0.050	04/03/2012	ND	2.05	102	2.00	14.4	
Total Xylenes*	1.07	0.150	04/03/2012	ND	6.34	106	6.00	14.9	

Surrogate 4-Bromofluorobenzene (PIL) 113 % 64 4-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	44.5	10.0	03/29/2012	ND	182	91.0	200	26.2	
DRO >C10-C28	306	10.0	03/29/2012	ND	184	92.0	200	4.12	

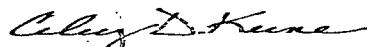
Surrogate 1-Chlorooctane 126 % 55 5-154

Surrogate 1-Chlorooctadecane 112 % 57 6-158

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

Received: 03/29/2012
Reported: 04/03/2012
Project Name: ACHEN FREY BATTERY
Project Number: 30-015-24536
Project Location: EDDY COUNTY, NM

Sampling Date: 03/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4 - 2 (H200745-08)

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	04/03/2012	ND	1.86	93.1	2.00	14.3	
Toluene*	0.429	0.050	04/03/2012	ND	2.02	101	2.00	14.3	
Ethylbenzene*	0.859	0.050	04/03/2012	ND	2.05	102	2.00	14.4	
Total Xylenes*	4.13	0.150	04/03/2012	ND	6.34	106	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 139 % 64.4-134

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	444	10.0	03/29/2012	ND	182	91.0	200	26.2	
DRO >C10-C28	710	10.0	03/29/2012	ND	184	92.0	200	4.12	

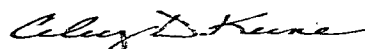
Surrogate: 1-Chlorooctane 125 % 55.5-154

Surrogate 1-Chlorooctadecane 97.1 % 57.6-158

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

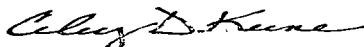
Notes and Definitions

- S-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

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: Amber CannonProject Name: Achen Frey BatteryCompany Name Yates Petroleum CorporationProject #: 30-015-24536Company Address: 105 South 4th StreetProject Loc: Eddy CountyCity/State/Zip: Artesia, NM 88210PO #: 1032020Telephone No: 575-748-4111

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: Amber Cannone-mail: acannon@yatespetroleum.com

(lab use only)

ORDER #:

LAB # (lab use only)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</
----------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

Special Instructions:

TYPE: PUMP, LUGS FOR THE CHLORIDES. Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you.

Laboratory Comments:

Sample Containers Intact?
VOCs Free of Headspace?
Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)

Sample Hand Delivered
by Sampler/Client Rep. ?
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: _____ °C

Y N
X N
X N
X N
X N
X N



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

April 17, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ACHEN FREY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/12/12 9:35.

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/12/2012
Reported: 04/17/2012
Project Name: ACHEN FREY BATTERY
Project Number: 30-015-24536
Project Location: EDDY COUNTY, NM

Sampling Date: 04/10/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 4 (H200842-01)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.29	0.500	04/17/2012	ND	2.08	104	2.00	2.80	
Toluene*	13.9	0.500	04/17/2012	ND	2.15	108	2.00	2.84	
Ethylbenzene*	17.1	0.500	04/17/2012	ND	2.14	107	2.00	2.99	
Total Xylenes*	77.0	1.50	04/17/2012	ND	6.61	110	6.00	2.53	

Surrogate 4-Bromofluorobenzene (PIL) 152 % 64.4-134

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	1770	100	04/14/2012	ND	191	95.6	200	6.82	
DRO >C10-C28	3660	100	04/14/2012	ND	208	104	200	3.99	

Surrogate 1-Chlorooctane 184 % 55.5-154

Surrogate 1-Chlorooctadecane 157 % 57.6-158

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

Received:	04/12/2012	Sampling Date:	04/10/2012
Reported:	04/17/2012	Sampling Type:	Soil
Project Name:	ACHEN FREY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-24536	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S1 - 5 (H200842-02)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.01	0.500	04/17/2012	ND	2.08	104	2.00	2.80	
Toluene*	16.3	0.500	04/17/2012	ND	2.15	108	2.00	2.84	
Ethylbenzene*	18.2	0.500	04/17/2012	ND	2.14	107	2.00	2.99	
Total Xylenes*	81.6	1.50	04/17/2012	ND	6.61	110	6.00	2.53	

Surrogate: 4-Bromofluorobenzene (PII) 147 % 64 4-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1320	100	04/14/2012	ND	190	95.0	200	2.55	
DRO >C10-C28	2480	100	04/14/2012	ND	211	105	200	11.8	

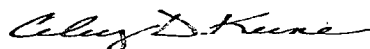
Surrogate: 1-Chlorooctane 153 % 55 5-154

Surrogate: 1-Chlorooctadecane 126 % 57 6-158

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

 Received: 04/12/2012
 Reported: 04/17/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WT - 1 (H200842-03)

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	04/16/2012	ND	2.08	104	2.00	2.80	
Toluene*	<0.050	0.050	04/16/2012	ND	2.15	108	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/16/2012	ND	2.14	107	2.00	2.99	
Total Xylenes*	0.210	0.150	04/16/2012	ND	6.61	110	6.00	2.53	

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 64 4-134

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	04/14/2012	ND	190	95.0	200	2.55	
DRO >C10-C28	<10.0	10.0	04/14/2012	ND	211	105	200	11.8	

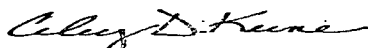
Surrogate: 1-Chlorooctane 98.5 % 55 5-154

Surrogate: 1-Chlorooctadecane 98.1 % 57 6-158

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



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

Analytical Results For:

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

Received: 04/12/2012
Reported: 04/17/2012
Project Name: ACHEN FREY BATTERY
Project Number: 30-015-24536
Project Location: EDDY COUNTY, NM

Sampling Date: 04/10/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: GLH - 5 (H200842-04)

BTX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/17/2012	ND	2.08	104	2.00	2.80	
Toluene*	2.51	0.200	04/17/2012	ND	2.15	108	2.00	2.84	
Ethylbenzene*	7.70	0.200	04/17/2012	ND	2.14	107	2.00	2.99	
Total Xylenes*	20.5	0.600	04/17/2012	ND	6.61	110	6.00	2.53	

Surrogate 4-Bromofluorobenzene (PIL) 106 % 64 4-134

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	843	100	04/14/2012	ND	190	95.0	200	2.55	
DRO >C10-C28	6090	100	04/14/2012	ND	211	105	200	11.8	

Surrogate 1-Chlorooctane 155 % 55 5-154

Surrogate 1-Chlorooctadecane 181 % 57 6-158

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

 Received: 04/12/2012
 Reported: 04/17/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GLH - 6 (H200842-05)

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	04/17/2012	ND	2.00	100	2.00	1.58	
Toluene*	0.163	0.050	04/17/2012	ND	2.11	106	2.00	0.346	
Ethylbenzene*	0.398	0.050	04/17/2012	ND	2.13	106	2.00	0.140	
Total Xylenes*	1.45	0.150	04/17/2012	ND	6.65	111	6.00	0.890	

Surrogate: 4-Bromofluorobenzene (PIL) 147 % 64 4-134

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	04/14/2012	ND	190	95.0	200	2.55	
DRO >C10-C28	581	100	04/14/2012	ND	211	105	200	11.8	

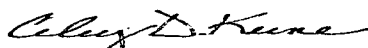
Surrogate: 1-Chlorooctane 99.6 % 55 5-154

Surrogate: 1-Chlorooctadecane 114 % 57 6-158

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



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

Analytical Results For:

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

Received: 04/12/2012
Reported: 04/17/2012
Project Name: ACHEN FREY BATTERY
Project Number: 30-015-24536
Project Location: EDDY COUNTY, NM

Sampling Date: 04/10/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4 - 4 (H200842-06)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.356	0.050	04/17/2012	ND	2.00	100	2.00	1.58	
Toluene*	2.90	0.050	04/17/2012	ND	2.11	106	2.00	0.346	
Ethylbenzene*	3.56	0.050	04/17/2012	ND	2.13	106	2.00	0.140	
Total Xylenes*	17.9	0.150	04/17/2012	ND	6.65	111	6.00	0.890	

Surrogate 4-Bromofluorobenzene (PIL) 137 % 64 4-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	304	100	04/14/2012	ND	190	95.0	200	2.55	
DRO >C10-C28	662	100	04/14/2012	ND	211	105	200	11.8	

Surrogate 1-Chlorooctane 115 % 55 5-154

Surrogate 1-Chlorooctadecane 119 % 57 6-158

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

 Received: 04/12/2012
 Reported: 04/17/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4 - 5 (H200842-07)

BTX 80218		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.811	0.050	04/17/2012	ND	2.00	100	2.00	1.58	
Toluene*	3.81	0.050	04/17/2012	ND	2.11	106	2.00	0.346	
Ethylbenzene*	4.31	0.050	04/17/2012	ND	2.13	106	2.00	0.140	
Total Xylenes*	19.1	0.150	04/17/2012	ND	6.65	111	6.00	0.890	

Surrogate: 4-Bromofluorobenzene (PIL) 175 % 64 4-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	04/14/2012	ND	190	95.0	200	2.55	
DRO >C10-C28	217	100	04/14/2012	ND	211	105	200	11.8	

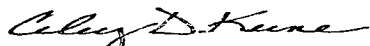
Surrogate: 1-Chlorooctane 90.7 % 55.5-154

Surrogate: 1-Chlorooctadecane 101 % 57.6-158

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

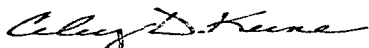
Notes and Definitions

- S-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

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: Amber Cannon

Project Name: Achen Frey Battery

Company Name: Yates Petroleum Corporation

Project #: 30-015-24536

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111 or 575-513-8799

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)

ORDER #:

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers										Matrix										RUSH TAT (Pre-Schedule) 24, 48, 72	Standard TAT						
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW =Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1	8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR/ ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles			Semivolatiles	PCB / BTEX / 5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR
1	S1-4	4'	4'	4/10/2012	11:00 AM		1	X								S	X													X				X	
2	S1-5	5'	5'	4/10/2012	11:05 AM		1	X								S	X													X				X	
3	WT-1	1'	1'	4/10/2012	11:10 AM		1	X								S	X													X				X	
4	GLH-5	5'	5'	4/10/2012	11:15 AM		1	X								S	X													X				X	
5	GLH-6	6'	6'	4/10/2012	11:20 AM		1	X								S	X													X				X	
6	S4-4	4'	4'	4/10/2012	11:25 AM		1	X								S	X													X				X	
7	S4-5	5'	5'	4/10/2012	11:30 AM		1	X								S	X													X				X	

Special Instructions: Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you.

Laboratory Comments:

Sample Containers Intact? ☒ N
 VOCs Free of Headspace? ☒ N
 Labels on container(s) ☒ N
 Custody seals on container(s) ☒ N
 Custody seals on cooler(s) ☒ N
 Sample Hand Delivered by Sampler/Client Rep.? ☒ N
 by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star
 Temperature Upon Receipt: 20 °C

Relinquished by: <u>Amber Cannon</u>	Date	Time	Received by: <u>Dee Henderson</u>	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: ELOT	Date	Time

#26



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

April 17, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ACHEN FREY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/12/12 9:35.

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,

Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/12/2012
 Reported: 04/17/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - 4 (H200842-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	04/16/2012	ND	400	100	400	11.3		

Sample ID: S1 - 5 (H200842-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	04/16/2012	ND	400	100	400	11.3	

Sample ID: WT - 1 (H200842-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	04/16/2012	ND	400	100	400	11.3	

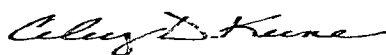
Sample ID: GLH - 5 (H200842-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	04/16/2012	ND	400	100	400	11.3		

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

 Received: 04/12/2012
 Reported: 04/17/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/10/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GLH - 6 (H200842-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	04/16/2012	ND	400	100	400	11.3		

Sample ID: S4 - 4 (H200842-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	04/16/2012	ND	400	100	400	11.3	

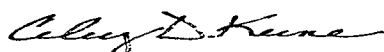
Sample ID: S4 - 5 (H200842-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	04/16/2012	ND	400	100	400	11.3	

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.



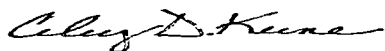
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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: Amber CannonProject Name: Achen Frey BatteryCompany Name: Yates Petroleum CorporationProject #: 30-015-24536Company Address: 105 South 4th StreetProject Loc: Eddy CountyCity/State/Zip: Artesia, NM 88210PO #: 1032020Telephone No: 575-748-4111 or 575-513-8799

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: Amber Cannone-mail: acannon@yatespetroleum.com

(lab use only)

ORDER #:

LAB # (lab use only)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
----------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Special Instructions:

Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you.

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep. ?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:

Y N

Y N

Y N

Y N

Y N

Y N

Y N

Y N

20 °C

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by ELDT:

Date

Time



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

May 11, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ACHEN FREY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/03/12 11:20.

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 black ink that reads "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
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/03/2012	Sampling Date:	04/30/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	ACHEN FREY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-24536	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S1-6 (H201015-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	05/07/2012	ND	400	100	400	0.00	

Sample ID: S1-7 (H201015-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	05/07/2012	ND	400	100	400	0.00	

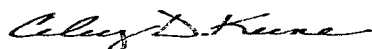
Sample ID: S1-8 (H201015-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	05/07/2012	ND	400	100	400	0.00		

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

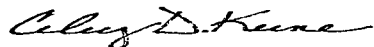
Notes and Definitions

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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Project Name: Achen Frey Battery¹

Company Name. Yates Petroleum Corporation

Project #: .. 30-015-24536

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111 or 575-513-8799

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)

ORDER #: H201015

[illegible]

Special Instructions:

THE NEW YORK PUBLIC LIBRARY

Please show BTEX results as mg/kg. Please put chlorides

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container


7 Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep. ?
by Courier? URS

by Courier?	UPS
-------------	-----

Temperature Upon Receipt:



110 °C

#26

May 11, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ACHEN FREY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/03/12 11:20.

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/ga/lab_accred_certif.html.

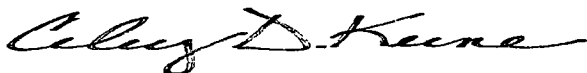
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

 Received: 05/03/2012
 Reported: 05/11/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/30/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-6 (H201015-01)

BTEX 8021B			mg/kg		Analyzed By: ZZZ				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.268	0.050	05/10/2012	ND	1.99	99.7	2.00	3.47	
Toluene*	3.14	0.050	05/10/2012	ND	2.11	106	2.00	2.80	
Ethylbenzene*	5.15	0.050	05/10/2012	ND	2.11	105	2.00	3.23	
Total Xylenes*	23.3	0.150	05/10/2012	ND	6.54	109	6.00	2.88	

Surrogate 4-Bromofluorobenzene (PIL) 118 % 64.4-134

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	163	10.0	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	462	10.0	05/09/2012	ND	173	86.7	200	3.21	

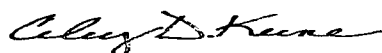
Surrogate 1-Chlorooctane 104 % 55.5-154

Surrogate 1-Chlorooctadecane 109 % 57.6-158

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

 Received: 05/03/2012
 Reported: 05/11/2012
 Project Name: ACHEN FREY BATTERY
 Project Number: 30-015-24536
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/30/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-7 (H201015-02)

BTX 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2012	ND	1.99	99.7	2.00	3.47	
Toluene*	1.34	0.050	05/10/2012	ND	2.11	106	2.00	2.80	
Ethylbenzene*	3.31	0.050	05/10/2012	ND	2.11	105	2.00	3.23	
Total Xylenes*	16.0	0.150	05/10/2012	ND	6.54	109	6.00	2.88	

Surrogate: 4-Bromofluorobenzene (PIC) 201 % 64 4-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	132	10.0	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	406	10.0	05/09/2012	ND	173	86.7	200	3.21	

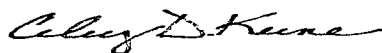
Surrogate: 1-Chlorooctane 91.8 % 55 5-154

Surrogate 1-Chlorooctadecane 93.7 % 57 6-158

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.



Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/03/2012
Reported: 05/11/2012
Project Name: ACHEN FREY BATTERY
Project Number: 30-015-24536
Project Location: EDDY COUNTY, NM

Sampling Date: 04/30/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-8 (H201015-03)

BTEX 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/10/2012	ND	1.99	99.7	2.00	3.47	
Toluene*	4.90	0.500	05/10/2012	ND	2.11	106	2.00	2.80	
Ethylbenzene*	8.32	0.500	05/10/2012	ND	2.11	105	2.00	3.23	
Total Xylenes*	42.0	1.50	05/10/2012	ND	6.54	109	6.00	2.88	

Surrogate 4-Bromofluorobenzene (PIC) 147 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	501	10.0	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	1150	10.0	05/09/2012	ND	173	86.7	200	3.21	

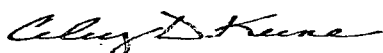
Surrogate 1-Chlorooctane 122 % 55.5-154

Surrogate 1-Chlorooctadecane 110 % 57.6-158

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

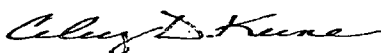
Notes and Definitions

- 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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Project Name: Achen Frey Battery

Company Name	Yates Petroleum Corporation
--------------	-----------------------------

Project #: 30-015-24536

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111 or 575-513-8799

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Ambie Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)

ORDER #: H201015

[illegible]

Special Instructions: TCE, SEB, BTEX, SOA's & Chlorides. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.

Laboratory Comments:			
Sample Containers Intact?	Y	N	
VOCs Free of Headspace?	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:	40	°C	

Relinquished by: <i>Amber Cannon</i>	Date <i>5/3/12</i>	Time <i>11:20A</i>	Received by: <i>[Signature]</i>	Date <i>5-3-12</i>	Time <i>11:20</i>
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

26



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

May 30, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ACHEN FREY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/24/12 13:16.

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 black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/24/2012
Reported: 05/30/2012
Project Name: ACHEN FREY BATTERY
Project Number: 30-015-24536
Project Location: EDDY COUNTY, NM

Sampling Date: 05/23/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: S1 - 9 (H201180-01)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2012	ND	2.14	107	2.00	2.48	
Toluene*	<0.050	0.050	05/29/2012	ND	2.00	99.9	2.00	0.941	
Ethylbenzene*	<0.050	0.050	05/29/2012	ND	1.91	95.4	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/29/2012	ND	5.74	95.7	6.00	0.535	

Surrogate 4-Bromofluorobenzene (PIL) 103 % 89 4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	05/25/2012	ND	416	104	400	3.77	

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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	

Surrogate: 1-Chlorooctane 80 1 % 65.2-140

Surrogate: 1-Chlorooctadecane 88 0 % 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
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/24/2012	Sampling Date:	05/23/2012
Reported:	05/30/2012	Sampling Type:	Soil
Project Name:	ACHEN FREY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-24536	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: S1 - 10 (H201180-02)

BTEX 80218		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2012	ND	2.14	107	2.00	2.48	
Toluene*	<0.050	0.050	05/29/2012	ND	2.00	99.9	2.00	0.941	
Ethylbenzene*	<0.050	0.050	05/29/2012	ND	1.91	95.4	2.00	0.131	
Total Xylenes*	<0.150	0.150	05/29/2012	ND	5.74	95.7	6.00	0.535	

Surrogate: 4-Bromofluorobenzene (PIL) 97.4 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	05/25/2012	ND	416	104	400	3.77	

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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	

Surrogate: 1-Chlorooctane 83.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.3 % 63.6-154

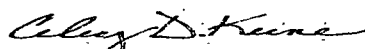
Sample ID: S4 - 6 (H201180-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/25/2012	ND	416	104	400	3.77	

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

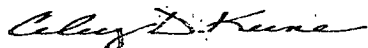
Notes and Definitions

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

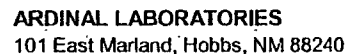
Cardinal Laboratories

*=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: Achen Frey Battery

Project #: 30-015-24536

Project Loc: Eddy County

PO #: 1032020

Fax No: 011-26109672

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: acannon@yatespetroleum.com

ORDER #: 420.80-

Special Instructions:			Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you.			Laboratory Comments:		
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Containers intact?		
Amber Cannon	5/24/12	8:00A	Califerno	5/24/12	1:16p	VOCs Free of Headspace?		
Relinquished by:	Date	Time	Received by:	Date	Time	Labels on container(s)		
						Custody seals on container(s)		
Relinquished by:	Date	Time	Received by:	Date	Time	Custody seals on cooler(s)		
						Sample Hand Delivered		
						by Sampler/Client Rep.?		
						by Courier?	UPS	DHL
							FedEx	Lone Star
Relinquished by:	Date	Time	Received by ELOT	Date	Time	Temperature Upon Receipt:	62	°C