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. PRESIDEN

SCOTT M. YATES VICE PRESIDENT

JAMES S BROWN CHIEF OPERATING OFFICER

JÖHN D. PERINI Chief financial officer

JORGE S. MENDOZA

RECEIVED

JUN 13 2012

NMOCD ARTESIA

June 12, 2012

Re

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

30-015-24536

Section 14, T17S-R25E Eddy County, New Mexico

Achen Frey DM Battery

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.

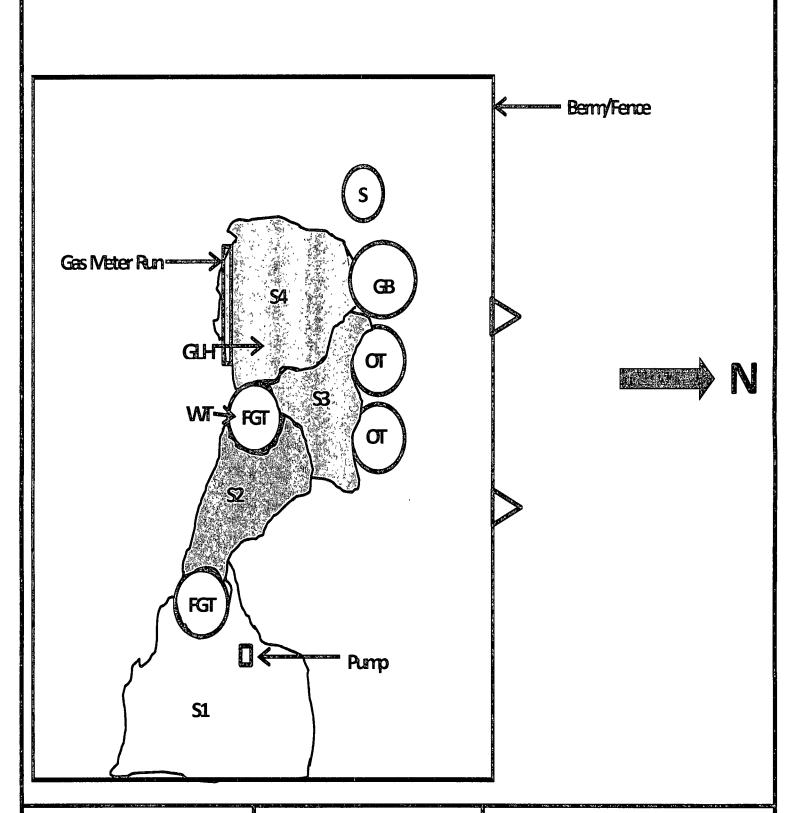
YATES PETROLEUM CORPORATION

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	втех	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	Excavate
S2-1-4	Release Area	3/28/2012	Grab	1	₹ ND	14-7	1800.	1814.7	336	
\$2.2 T	Release Area	3/28/2012	Grab.	4° ₹- 2'.	ND	ND	292	292	352	
S3-1	Release Area	3/28/2012	(%) Test 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	Excavate
S4-2	Release Area	3/28/2012	Grab	2'	5.418	ž 444.	710	1154	7-860	Excavate
				100.55 70 77 70 53					70.300 5 20 15	d •1
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	Excavate
S1-5	Release Area	4/10/2012	Grab	5'	118.11	1320	2480	3800	2,240	Excavate
Wī[≠1	Release Area	4//10/2012	: Grab	Jo	0.21	NØ	ND	ND	1,100	
eurs	Release Area	4//10/2012	Grab :	. 5°	30.71	₹843	6090	6933	-1,070;	Excavate
©LH6	Release Area	47/10/2012	©reb :	67	2.011	ND.	581	581	1,600	
S4-4	Release Area	4/10/2012	Grab	4!	24.716	304	662	966	3,360	
§ \$4-5	Release Area	4/10/2012	Grab	5'	28.031	ND.	217	217	2,320	
Analytical Report-						1				1
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	
\$3. \$4-6	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 accreditated 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.

Celey D. Keens

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



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: S1 - 1 (H200745-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	Analyze	d 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	Analyze	d 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 tont, 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 warved 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 consequencial damages, including, without limitation, business interruptions, loss of use, or loss of profits incidental incidence by client, its subsidiances, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such dalim 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 Laboratomes.

Celey & Keene





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

Reporting Limit

Reporting Limit

Project Number:

30-015-24536

Project Location:

Analyte

Analyte

Analyte

Analyte

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, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD Qualifier

3.64

Chloride

Result 464

16.0 03/30/2012 ND

432

108

400

Sample ID: S3 - 2 (H200745-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

True Value QC

RPD Qualifier

Chloride

608

Result

16.0 03/30/2012 ND

BS 432

108

400

Sample ID: S4 - 1 (H200745-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

Analyzed

Method Blank

BS

% Recovery

True Value QC

Qualifier

Chloride

Chloride

Result 3680

Result

7860

Reporting Limit 16.0

Reporting Limit

16.0

03/30/2012

Analyzed

03/30/2012

ND

432

BS

432

108

400

RPD 3.64

3.64

Sample ID: S4 - 2 (H200745-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

ND

Method Blank

% Recovery

108

True Value QC

400

RPD

3.64

Qualifier

Cardinal Laboratories

*=Accredited Analyte

within thirty (30) days after comp In no event shall Cardinal be liable for incidental or core

Celey D. Keene

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

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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 Can	non														_	P	roje	t Na	ame:			_	Ac	her	Fre	у Ва	atter	у			
	Company Name	Yates Petro	ileum Corpo	oration	1												-		P	roje	ct #:					30-	015-	245	36				
	Company Address:	105 South	4th Street																Pro	ect	Loc:					Ed	dý C	oun	ity'				
	City/State/Zip:	Artesia, NN	1 88210														_			F	PO #:						1032	020					
	Telephone No:	575-748-41	111		•	•	Fax No:						•					Repo	ort F	orma	at:	x	Stan	daro	i		TF	RR			NPDE	ΞS	
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3 # (lab use only)	H200745 FIEL	_D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers			HCI ·		-	o o	Other (Specify)	r SL=Sludge	S=Soil/Solid	Specify Other	TX-1005	1s (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)		s Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	E.E. ECELL/Susu or BIEK 6200	N.O.R.M.	Chlorides	SAR	DISUTAT OF LAND	Standard TAT	
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April 03, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ACHEN FREY BATTERY

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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.

Celey D. Keens

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





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

Cool & Intact

Project Number:

30-015-24536

Sampling Condition:

Project Location:

Sample Received By:

Jodi Henson

EDDY COUNTY, NM

Sample ID: S1 - 1 (H200745-01)

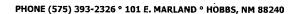
BTEX 8021B	mg/k	(g	Analyze	d By: AP					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD .	Qualifier
Benzene*	14.8	1.00	03/30/2012	ND	1.97	98.3	2.00	4.99	
Toluene*	85.3	1.00	03/30/2012	ND	2.11	105	2.00	5.41	
Ethylbenzene*	81.7	1.00	03/30/2012	ND	2.13	106	2.00	5.66	
Total Xylenes*	358	3.00	03/30/2012	ND	6.66	111	6.00	6.07	
Surrogate. 4-Bromofluorobenzene (PIL	155 %	64.4-13	4						
TPH 8015M	mg/k	(g	Analyze	d By: MS					5-06
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 %	55.5-15	4						
Surrogate: 1-Chlorooctadecane	110 %	57 6-15	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Liability and Damages. Cardinal's liability and dient's exclusive remedy for any daim 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 waved unless made in wining and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damages, any outer doubt mistation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arrang out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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 & Keene





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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: S1 - 2 (H200745-02)

BTEX 8021B	mg,	/kg	Analyze	d 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 4-13	'4						
TPH 8015M	mg,	/kg	Analyze	d 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 5-15	:4						
Surrogate. 1-Chlorooctadecane	115	% 57 6-15	:8						

Cardinal Laboratories

*=Accredited Analyte

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Fax To:

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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:

Project Location:

EDDY COUNTY, NM

Jodi Henson

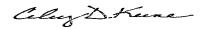
Sample ID: S2 - 1 (H200745-03)

BTEX 8021B	mg/	'kg	Analyze	d 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	998	% 64.4-13	4				-		
TPH 8015M	mg,	'kg	Analyze	d 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 5-15	4						
Surrogate: 1-Chlorooctadecane	116	% 57 6-15	8				-		• •

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remety 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 PLEASE NOTE Labbing and usmanges. Cartinate and an extraction of the applicable services for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Cardinal, regardless of whether such







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	Analyze	d 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 4-13	14						
TPH 8015M	mg	/kg	Analyze	d 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 5-15	i4				· · · · · · · · · · · · · · · · · · ·		
Surrogate: I-Chlorooctadecane	104	% 57 6-15	ī <i>8</i>						

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*=Accredited Analyte

PLEASE NOTE Labelity 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 dient for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved 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 lamitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, 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 Laboratones.

Celey & Keine



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

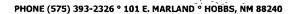
Sample ID: S3 - 1 (H200745-05)

BTEX 80218	mg/	kg	Analyze	d 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 9	% 64.4-13	4					· · ·	
TPH 8015M	mg/	kg	Analyze	d By: MS			٠-		
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 5-15	:4						
Surrogate: 1-Chlorooctadecane	109 9	% 57 6-15	:8						

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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: Project Number: ACHEN FREY BATTERY

Project Location:

30-015-24536 EDDY COUNTY, NM Sampling Date:

Sampling Type:

03/28/2012

ype:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3 - 2 (H200745-06)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD ·	Qualifie
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 4-13	4						
TPH 8015M	mg/	'kg	Analyze	d By: MS			· · · · · · · · · · · · · · · · · · ·	-,	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 55.5-15	4				, ,		
Surrogate 1-Chlorooctadecane	111	% 57 6-15	8						-

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Celey D. Keene, Lab Director/Quality Manager



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

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: S4 - 1 (H200745-07)

BTEX 8021B	mg/	kg	Analyze	d 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%	6 64 4-13	4						
TPH 8015M	mg/	kg	Analyze	d 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 %	6 55 5-15	4				, , , , , , , , , , , , , , , , , , ,		
Surrogate 1-Chlorooctadecane	112 %	6 57 6-15	8						

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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:

Sampling Type:

Soil

04/03/2012

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: S4 - 2 (H200745-08)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d 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 5-15	4						
Surrogate 1-Chlorooctadecane	97 1	% 57 6-15	8						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal intrity (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 subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

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					· · · · · · · · · · · · · · · · · · ·								`		_		Proj	ect l	Nam	e:			• /	Ache	en F	rey	Ba	iter		,		
	Company Name	Yates Petroleum	1 Corpora	tion																Pro	ject	#:				30	0-01	5-2	453	16				
	Company Address:	105 South 4th S	itreet				·												Pr	ojec	t La	c: _					ddy	, Co	unt	у	·			_
	City/State/Zip:	Artesia, NM 88	3210				·														РО	#: _					10	320	20					_
	Telephone No:	575-748-4111					Fax No:						,					Re	port	Forr	nat:		x s	tand	lard			TRF	٦P	[NPD:	≣S	
	Sampler Signature:	amber (ànn	ω			e-mail:		ac	anı	nor	1@	yat	esp	etr	ole	un	1 <u>.cc</u>	<u>2m</u> .															
lab use c			7																			-	TCL		Analy	ze F	or:			_	<u> </u>	٦,		
			1			,			1				. 0 44	• (C)				Mat	20	53.1			OTA	<u>.</u> '	,	二			ł		- 1	1		
LAB # (lab use only)	H200745 FIEL	D CODE		beginning Depth	cnaing Deput	Date Sampled	Time Sampled	Ficld Filtered	Total #. of Containers		HNO		H,SO4	ol Co		, in the second	SI =Studoe		n-Potable Specify Other	418.1 801	TPH TX 1005 TX 1006	Catrons (Ca, Mg, Na, K)	Anions (Cl., SU4, Alkaimity)	Metals: As Ao Ba Cd Cr Pb Ho Se	Volatiles	Semivolatiles	ತಗಮ ಕರದುವಿ/5030 or BTEX 8260	C.	N.O.R.M	Chlorides	SAR	1.	Standard TAT	
-1		S1-1		1'		8/2012	9:00 AM			х					1	T	T	s	-	x					1	T	х	П		Х			Х	
2		51-2		2' :	2' 3/2	8/2012	9:00 AM		1	Х								S		х							Х			х			Х	
3	S	62-1		1'	1' 3/28	8/2012	9:10 AM		1	х								S		x							Х			х			Х	
Ц	9	62-2		2' :	2' 3/2	8/2012	9:10 AM		1	х					·			S		х							X		Î	x			х	
5	9	63-1		1'	1' 3/2	8/2012	9:20 AM		1	х								<u>s</u>		x							х			X		1	X	
b		83-2		2' :	2' 3/2	8/2012	9:20 AM			X			_				_	S		Х						↓_	х	Ш		Х			X	
7	S	64-1		1'	1' 3/2	8/2012	9:30 AM			X				\perp	_	1	_	<u>s</u>		X			1	\perp	_	_	X	Ш		Х	\dashv	_ _	X	l
8	S	64-2		2' :	2' 3/2	8/2012	'9:30 AM	÷	1	X		_	+	+	+	+	\perp	S		X	-	+	+	+	+	\vdash	X		-	Х	_	- -	X	
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Relinquish	ned by:		Date	Time	Receiv	ved by ELC	DT:										Date			lime					Upo							°(Star C	



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 accreditated 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.

Celey D. Keene

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





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: Project Location:

30-015-24536 EDDY COUNTY, NM Sampling Date:

04/10/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S1 - 4 (H200842-01)

BTEX 8021B	mg,	'kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 64.4-13	4						
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 5-15	4						
Surrogate · 1-Chlorooctadecane	157	% 57 6-15	8						

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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

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: S1 - 5 (H200842-02)

BTEX 8021B	mg,	′kg ·	Analyze	d By: AP					5-04
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 (PIL	147	% 64 4-13	4						
TPH 8015M	mg,	/kg	Analyze	d 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 5-15	4			-		,	
Surrogate: 1-Chlorooctadecane	126	% 57 6-15	.8						

Cardinal Laboratories

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Celeg & Keine



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: Project Location:

30-015-24536 EDDY COUNTY, NM Sampling Date:

04/10/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: WT - 1 (H200842-03)

BTEX	8021B

BTEX 8021B	mg/l	kg	Analyze	d 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 %	6 64 4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: MS					

IPH 6013M	ilig	/ N 9	Analyze					<u> </u>	
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

985%

55 5-154

Surrogate. 1-Chlorooctadecane

981%

57 6-158

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Liability and Damages. Cardinal's liability and dient's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses 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 subsidiances, 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 Laboratones.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager





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 30-015-24536

Project Number: 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)

BTEX 8021B	mg/	kg	Analyze	d 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 4-13	'4						
TPH 8015M	mg/	kg	Analyze	d 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 5-15	4			-			
Surrogate 1-Chlorooctadecane	181 9	% 57 6-15	8						

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*=Accredited Analyte

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Celey D. Kune



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: GLH - 6 (H200842-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP					5-04
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 %	6 64 4-13	4						
TPH 8015M	mg/	kg	Analyze	d 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 5-15	:4				-		
Surrogate 1-Chlorooctadecane	114 %	% 57 6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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 indidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, 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 Laboratones.





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:

Sampling Type:

Soil

04/17/2012

Project Name:

ACHEN FREY BATTERY

Sampling Condition:

Cool & Intact

Project Number:

30-015-24536

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

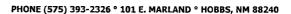
Sample ID: S4 - 4 (H200842-06)

BTEX 8021B	mg,	/kg	Anaiyze	d 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 4-13	34						
TPH 8015M	mg	/kg	Analyze	d 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 5-15	i4						
Surrogate: 1-Chlorooctadecane	119	% 57 6-15	ī <i>8</i>						

Cardinal Laboratories

*=Accredited Analyte

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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: S4 - 5 (H200842-07)

BTEX 80218	mg/	kg	Analyze	d 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 4-13	4						
TPH 8015M	mg/	kg	Analyze	d 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	% 55.5-15	:4					·····	
Surrogate: 1-Chlorooctadecane	101	% 57.6-15	8						

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*=Accredited Analyte

arry other cause whatsoever shall be deemed waved 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 subsidianes, affiliates or successors ansing 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 Laboratones.

Celeg D. Keene



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

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Company Name Vales Petroleum Corporation Project F: 30-015-24536		Project Manager:	t Manager: Amber Cannon														Proj	ect I	Vam	e:	e: Achen Frey Battery												
City/State/Zip: Artesia, NM 88210		Company Name	Yates Petroleun	n Corpo	ration	1			,											Proj	ect	#:	····		-n	30) <u>-01</u>	5-2	453	6			
Telephone No: 575-748-4111 or 575-513-8799		Company Address:	105 South 4th S	Street															Pr	ojęc	t Lc	c:				E	ddy	Co	unt	<u>y</u>		 	;
Sampler Signature:		City/State/Zip:	Artesia, NM 88	8210			·														PO	#:					103	320	20				: .
Second S		Telephone No:	575-748-4111 c	or 575-5	13-87	99_		Fax No:										Re	port	Forr	nat:		St	anda	ard	•		TRE	RP.	[IPDE	s
Second S		Sampler Signature:	amber Co	ann	$\overline{\omega}$			e-mail:		aca	anr	non	<u>@</u> y	<u>ate</u>	spe	tro	leu	m.c	<u>om</u>							<u></u>							-
## 1200/64/2 FIELD CODE ## 4 4/10/2012 11:00 AM 1 X S X				٦																			TCLF		naly.	ze F	or:	-	Ť	7	Ť	- _	
1 S1-4 4' 4' 4' 4' 4' 10/2012 11:10 AM 1 X			-							г	Pr	nasan	ation	8.#n	f Cont	ainer	· I	′Ma	trix	ii. T	-т				ļ.	1				١		B, 72 h	
S1-4			.D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	5	ŏ								SL=Sludge	n-Potable Specify Other	418,1 801	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	SAR'/ ESP / CEC	d Cr Pb Hg		Semivolatiles	:: /5030 or BTEX	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 4	Standard TAT
WT-1		 					4/10/2012	11:00 AM	,,,,		x									7							1 1		Т	-	工	工	X
Comparison of the Control of Co	b		S1-5		5'	5'	4/10/2012	11:05 AM		1	х							Ç	S	Х							Х			Х	1		Х
GLH-6 6' 6' 4/10/2012 11:20 AM 1 X S X X X X X X X X X X X X X X X X X			VT-1		1'	·· 1'	4/10/2012	11:10 AM		1	X	4		_	_				<u>}</u>	-	\downarrow	_ _	1	_	Ļ	7.	1	_		<u>X</u>			X
S4-4 4' 4' 4/10/2012 11:25 AM 1 X S X S X X X X X X X X X X X X X X X		G	LH-5		5'	5'	4/10/2012	11:15 AM			-	_	_		_	_					_	_	\downarrow	_	<u>_</u>	_		\dashv			4		1
S4-5 5' 5' 4/10/2012 11:30 AM 1 X						6'			_		-	\dashv	4	4-						X	4	1	-	_	Ļ	_					_‡	4	
ipecial Instructions: Or a separate report Thank you. Relinquished by: Date Time Regelved by: Date Time Refered by: Date Time Received by ELOT. Date Time Received by ELOT.					-					_	-		\bot	_	-	_	\vdash				_		-	-	-	Ļ	-	\dashv	-	-	\dashv	+	_
on a separate report Thank you. Sample Containers Intact? VOCs Free of Headspace? Y N Vocs Free of Headspace? Y N Labels on container(s) Custody seals on container(s) N Custody seals on container(s) N			S4-5		5'	5'	4/10/2012	11:30 AM		-	X		\dashv	+	-		·		3	Х	\dashv	+	+		-		X		1	쒸	+	+	X
on a separate report Thank you. Sample Containers Intact? VOCs Free of Headspace? Y N Vocs Free of Headspace? Y N Labels on container(s) Custody seals on container(s) N Custody seals on container(s) N			1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-																														
on a separate report Thank you. Sample Containers Intact? VOCs Free of Headspace? Y N Vocs Free of Headspace? Y N Labels on container(s) Custody seals on container(s) N Custody seals on container(s) N														Ŀ																			
Relinquished by: Date Time Regeived by: Date Time Labels on container(s) Custody seals on container(s) Custody seals on container(s) Custody seals on container(s) Custody seals on container(s) N Date Time Date Date Date Date Date Date Da	pecial I	nstructions;				Thank	you.	·					s as	mg	/kg.	Ple	ase	put	chlo	ride	- 1	Samp	le C	onta	iners	i Inta	act?						
Temperature Upon Receipt: °C	am	Der Cannor		Date	Tir	,) <i>(G</i>	y (Succession .					4/	中中	te	. 4	Time	<u> </u>	abel Custo Custo Samp	s on ody s ody s ole H y Sai	cont eals eals and nple	aine on c on c Deliv r/Clie	r(s) conta coole cerece ent R	ainen er(s) I lep. 1	(s) [;]	_ 1	4	γ) Υ	N N N N	, [
	Relinquish	ned by:		Date	Tır	ne	Received by ELO) Т.				-					Da	te		Time		Lewit	erat	ure l			٠.	:	% \$\	Pac	ව 10 1	` `	



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 accreditated 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.

Celey D. Keine

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



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 - 4 (H200842-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte

Result

16.0

Reporting Limit

Analyzed By: AP

% Recovery

True Value QC

Qualifier

RPD

11.3

11.3

Chloride

4000

04/16/2012

Analyzed

Method Blank ND

BS 400

100

400 .

Sample ID: S1 - 5 (H200842-02)

Chloride, SM4500Cl-B

mg/kg

Method Blank

BS % Recovery True Value QC

400

Qualifier

Chloride

Chloride

Chloride

Result 2240

Result

1100

16.0

Reporting Limit

Analyzed 04/16/2012

ND

400

100

RPD

Sample ID: WT - 1 (H200842-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Analyte

Reporting Limit 16.0

Analyzed 04/16/2012 Method Blank ND

BS 400 % Recovery

100

True Value QC

400

RPD

11.3

Qualifier

Sample ID: GLH - 5 (H200842-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Result 1070 Reporting Limit 16.0

Analyzed 04/16/2012 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

11.3

Oualifier

Cardinal Laboratories

*=Accredited Analyte

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Celecy D. Keene

Celey D. Keene, Lab Director/Quality Manager





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: Project Location:

Analyte

Analyte

30-015-24536

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, SM4500CI-B

mg/kg

Analyzed By: AP

BS

% Recovery 100

True Value QC

Jan -

Qualifier

Qualifier

Qualifier

Chloride

Result 1600 Reporting Limit 16.0

Analyzed 04/16/2012

ND

Method Blank

400

400

11.3

RPD

Sample ID: S4 - 4 (H200842-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

% Recovery

Chloride

Result 3360 Reporting Limit 16.0

Analyzed 04/16/2012 Method Blank ND

Method Blank

BS 400

100

True Value QC 400 %

RPD

11.3

Sample ID: S4 - 5 (H200842-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Reporting Limit Analyzed Analyte Result 2320 16.0 Chloride

04/16/2012

ND

BS 400 % Recovery 100

True Value QC 400

RPD

11.3

Cardinal Laboratories

*=Accredited Analyte

Including, without limitation, business interruptions, loss of use, or loss of profits incurred by client,



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

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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																Pro	ject	Nan	ne: _			- 1	Ache	en F	rey	Batt	lery			
	Company Name	Yates Petroleum	Corpora	ation	1	, ,													Pro	ojec	#:_	:30-015-24536										
	Company Address:	105 South 4th St	reet															F	roje	ct L	oc: _				Е	ddy	Co	unty			-	
	City/State/Zip:	Artesia, NM 882	210																	PC	#:_					.103	32 <u>0</u> 2	20				
	Telephone No:	<u>5</u> 75-748-4111 or	575-513	3-87	'99		Fax No:										F	tepor	t For	mat	: [x s	tand	ard			TRF	₹P	Ε	וא [_	PDES	3
	Sampler Signature:	amberco	www	Λ_			e-mail:		<u>ac</u>	an	nor	1@	yat	esp	etro	oleu	ım.	<u>com</u>						Analy	70 F	or.	·				-	ر
lab use	only)	·	1																	,		TCL	Р	Taly		Ŭ.	T	T	T	T	┨┇	_
ORDEF	₹#:								ı	P	reser	vatio	n & #	of Co	nțaine	ers	- M	atrix	i.j	, 	1	ATOTA		+	<u> </u>	8260					24, 48, 72 hrs	
LAB # (lab use only)	H200843. FIEL	LD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #.'of Containers	eoi.	HNO	HČI	h,so₄	NaOH Na,S,O,	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soul/Solid NP=Non-Potable Specify Other	8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalintly)	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	31 8 /21.5 /5030 or BTEX	ŔĊI	N.O.R.M.	Chtorides	VAK	RUSH TAT (Pre-Schedule) 24,	Standard TAT
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2		WT-1		1'	1'	4/10/2012	11:10 AM		1	х					_			s	X							x			x	\perp		X
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10		S4-4		4'	4'	4/10/2012	11:25 AM		1	Х				\bot	L			s	X					\perp	L	X			x			\ <u>\</u>
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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 accreditated 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.

Celey D. Keine

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



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:

05/03/2012

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:

Cool & Intact

Project Location:

EDDY COUNTY, NM

Jodi Henson

Sample ID: S1-6 (H201015-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	5-02)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	5-03)								
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					17.
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

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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

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Celey D. Keine

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name Yates Petroleum Corporation Project 6: 30-015-24536 Company Address: 105 South 4th Street Posts: Eddy Coursy City/State/Zip: Article, NM 88210 Part 103/2020 Telephone No. 576-748-4111 or 576-513-8799 Fax No: Report Format: Standard TRRP NPDES Sampler Signature: Article, NM 88210 Page 100-000 Page 10		Project Manager:	Amber Canr	non															Proje	ect	Nam	e;			A	cher	Fr	ey E	Batte	LÀ,		
City/State/Zip: Artesia, NM 88210		Company Name	Yates Petro	leum Corp	oratio	<u> </u>														Pro	ject	#:				30-	015	-24	536	·		
Telephone No: 576-748-4111 or 576-513-8799 Fax No: Report Format: & Standard TRRP NPDES	•	Company Address:	105 South 4	th Street		,				· · · · · ·									Pr	ojed	et La	c;				Εc	ldy (Cou	nty			
Sampler Signature:		City/State/Zip:	Artesia, NM	88210																	РО	#:					103	202	0			
Analyze For TOTAL		Telephone No:	575-748-41	11 or 575-	513-87	799	_ i	Fax No	:									Rej	port !	For	mat:	· 🔀	Sta	andaı	rd	Ĺ	_]⊺	RŖſ	>		IPDE:	s
Preservation & # of Containers		Sampler Signature:	amb	u Ca	N	w	<u> </u>	e, mail		ac	anı	nor	<u>(@</u>)	<u>ate</u>	spe	etro	eu	m.cc	<u>m</u>		<u>.</u>											_
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on a separate report Thank you. Sample Containers Intact? Y N VOCs Free of Headspace? Y N VOCs Free of Headspace	pecial I	nstructions:	7F(5: 1	arist, Ri	1:52: &	024的	A Chilevilles.	Please sho	ow E	L STE	X re	sulf	s as	mg	/kg.	Ple	ase	put c	chlor	ide	s I	abo	rator	y Co	mm	ents	<u> </u>	\perp		Ţ		Щ
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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 accreditated 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.

Celey D. Keene

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



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: Sample Received By:

Cool & Intact
Jodi Henson

Project Number:

30-015-24536

Project Location:

EDDY COUNTY, NM

Sample ID: S1-6 (H201015-01)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 64.4-13	4						
TPH 8015M	mg,	/kg	Analyze	d 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	% 55.5-15	i4						
Surrogate 1-Chlorooctadecane	109	% 57 6-15	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability and Camages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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

Celey D. Keens



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: S1-7 (H201015-02)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ		-···			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% 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 (PIL	201 9	% 64 4-13	4						
TPH 8015M	mg/	'kg	Analyze	d 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 5-15	4						
Surrogate 1-Chlorooctadecane	937	% 57 6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine





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: S1-8 (H201015-03)

BTEX 8021B	mg/l	kg	Analyze	d 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 (PIL	147 %	6 64.4-13	4						
TPH 8015M	mg/l	kg	Analyze	d 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 %	6 55 5-15	4						
Surrogate 1-Chlorooctadecane	110 %	57 6-15	8				•		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim ansing, 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 consequentual 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 Laboratomes.



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. Uability and Damages Cardinal's liability and client's exclusive remedy for any claim ansing, 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 whistoever shall be deemed waved 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 incinered by client, its subdividense, affiliates or successors arong out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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 Laboratones.

Celey D. Keine

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUES



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

	Project Manager:	Amber Cann	on			· · · · · · · · · · · · · · · · · · ·	., 									<u> </u>		Pro	ject	Nan	ne;_				Ach	en F	rey	Ва	ttery	<u> </u>			
	Company Name	Yates Petrol	eum Corp	oratio	<u> </u>														Pre	ojec	t #: _				3	0-01	5-2	453	6				
	Company Address:	105 South 41	h Street															F	roje	ct L	oc: _				E	ddy	/ Cc	ount	У	,		,	
	City/State/Zip:	Artesia, NM	88210																	PC) #: _			-		10	320	20					
	Telephone No:	575-748-411	1 or 575-	513-87	799		Fax No:								,		F	lepor	t Foi	mat	: [x s	Stanc	lard			TRI	RP	[N	PDES	s	
	Sampler Signature:					\supset			ac	aņ	nor	1@	yat	esp	etro	oleu		com				- <i>"</i> :			vze F		<u></u>					1 ~	_
(lab use c	only)		_																			TCI	Ρ.	Anal	/261	ur.		·	1	1 7	۔ ا	٠	
ORDER	# H2010	15							i	P	rese	vatio	n & #	of Co	ntaine	ars .	M	atrix	ाड			TOTA		, -	+	8					48, 72 hrs]	
LAB # (lab use only)		Ü CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #of Containers	lce	HNO	- FG	H ₂ SO ₂	NaOH Na.S.O.	None	Other (Specify)	DW≠Drmking Water SL=Sludge	GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M sc.	TPH: TX:1005 TX:1006	Cations (Ca, Mg. Na, K)	Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Volatiles	Semivolatiles	STET (CO: 2/5030 or BTEX 8260	RÇI.	N:O.R.M.	Chlorides	SAR	Schedule) 24,	Standard TAT	
1		S1-6		6'	6'	4/30/2012	X								s	×							x			X			×				
2		S1-7		7'	7'	4/30/2012	2:15 PM		1	х		_						<u>s</u>	x	Ш		\perp			\perp	X			X	_		×	
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Special li	nstructions:		লোগাও, চিটা eparate re			& Theridas. Cyou.	Please sho	ow E	TE.	X ré	suli	is a	s m	g/kg	Pl	ease	pu	t chia	oride	s	Sam	ple (ainer	s Int	ts: act?		7.	(Ŷ),	N N		
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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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keens

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



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

Fax To:

):

(505) 748-4635

Annhand Du 777

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 - 9 (H201180-01)

BTEX 8021B	mg/	'kg	Analyze	d 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 9	% 89 <i>4-12</i>	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	88 0	% 63 6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim ansing, 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 warved 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 use, or loss of profits incurred by client, its subsidianes, 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 Laborationes.

Celey D. Keene



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

Fax To:

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 8021B	mg/	'kg	Analyze	d 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 4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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 2-14	10						
Surrogate: 1-Chlorooctadecane	90 3	% 63 6-15	i <i>4</i>						

Sample ID: S4 - 6 (H201180-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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 ansing, 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 whatesever 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 consequenced damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors ansing 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 Laboratones.

Celey D. Keine

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

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Celey D. Keene

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name Vales Petroleum Corporation Project t.e.: 30.015-24536		Project Manager:	Amber Cannon	-		· · · · · · · · · · · · · · · · · · ·	·		. .	_			<u>, :</u>	-			Proje	ct N	lame	; <u> </u>			Ac	<u>hen</u>	Frey	Bat	tery			
City/State/Zip: Arteala, NM 88210	-	Company Name	Yates Petroleum Corp	oratio	n				•					. Pg				Proje	ect#	:	. :			30-0	15-2	24 <u>5</u> 3	6			
Telephone No:	•	Company Address:	105 South 4th Street										· · · ·		· ·		Pro	ject	Loc				,	Edd	y Co	ount	y .			_
Sampler Signature: UMD		City/State/Zip:	Artesia, NM 88210															٠ ،	PO#	:				1()320	20	17.	,,		
Analyze For TOLP TOLK		Telephone No:	575-748-4111 or 575-	513-8	799	<u></u>	Fax No:	·			-	,	, ,	:	•.	Ré	port F	ořm	at:	, x	Sta	ndaro	t.	$^{\cdot}$]TR	RP	. []NP	DES	
DRDER #: H 2 0 1180 -	-	Sampler Signature	ambu Ca	<u>~~</u>	<u> </u>	<u> </u>	e-mail:		<u>ac</u>	ann	on(<u>@ya</u>	ites	oetr	oleı	<u>ım.c</u>	om _	,			. , ,	· .						·	*******	
Preservation 8 # of Containers Matrix Matr	lab use	only)											, :		•					T		Ana	alyze	For:	1			<u> </u>	g. \	
FIELD CODE	ORDE	R#: H201	180-		1		_{2.} ;		. [Pre	serva	tion 8	# of C	ontain	ers	Ма	trix	<u> </u>	. 1	Το		Se	\mp	9					48, 72	
State Stat		;		Beginning Depth	Ending Depth	Date Sampled		Field Filtered	Total # .of Containers	601	Tierre Tierre	H,SO,	NaOH	Ne,S,O,	S.	DW=Drinking Water SL=Studge	n-Potable	418.1 TV 4005	Ce. Mg	CI SO4.	SAR / ESP / CEC	Aş Ag Ba,Cd Cr Pb Hg	Volatiles	BTEX	RCI	N.O.R.M.	Chlorides SAR		SH TAT (Pro-Schedute) Idard TAT	
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by Courier? UPS DHL FedEx Lone Star Relinquished by: Date Time Received by ELOT Date Time Temperature Upon Receipt: (2 °C	Relinquis	hed by:	on a separate re	port B.00	Thank me A	Received by	1				ultś	as r	ng/k		D:	ate f/12		me (a./	Sa V(La Ci O Ci	omple OCs bels ustod ustod	Free on c ly se	of Ho ontain als or als or	ers in eads ner(s n con n coo	ntact i pace) ntaine oler(s	? r(s)		KAKKK)	1	N	
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