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

JOHN A. YATES JR.

SCOTT M. YATES

JAMES S. BROWN CHIEF OPERATING OFFICER

JOHN D. PERINI CHIEF FINANCIAL OFFICER

JORGE S. MENDOZA ADMINISTRATIVE OFFICER

RECEIVED

JUN **1 3** 2012

NMOCD ARTESIA

June 12, 2012

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

Achen Frey DM Battery Re:

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.

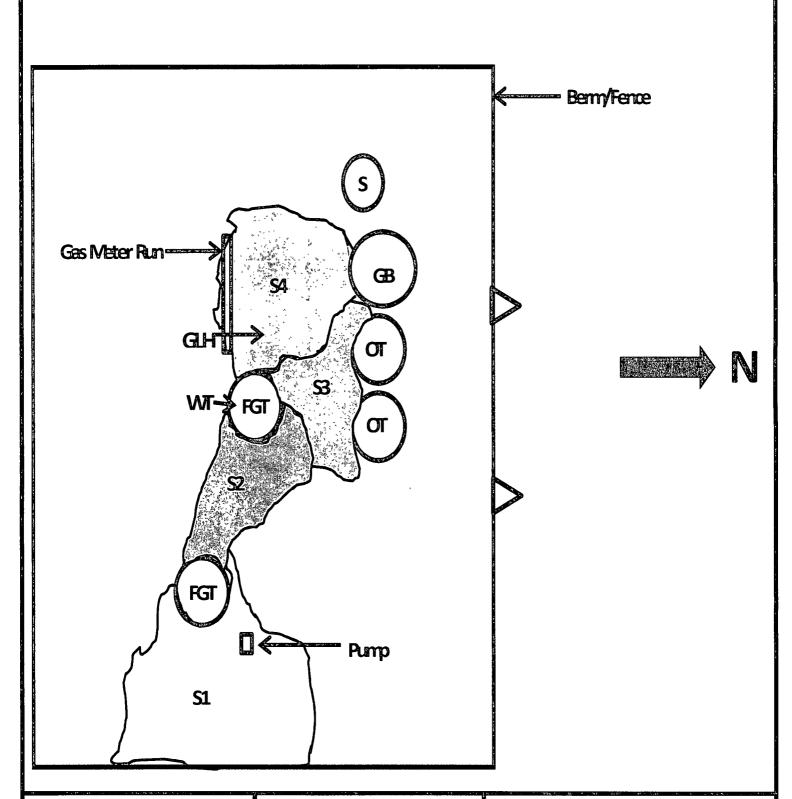
YATES PETROLEUM CORPORATION

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	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	Excavated
S2-1	Release Area	3/28/2012	Grab	1/55	ND :	14.7.	1800.	±1814.7	336	
S2-2	Release Area	3/28/2012	Grab.	2.2.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	ND	ND	292	292	352	
\$3-1483 S	Release Area	3/28/2012	Grab	意の構造	0.345	37.3	268	305.3	464	
\$3-2.5	Release Area	3/28/2012	Grab	2	0.071	13.8	140	153.8	608	
S4-1\\(\frac{1}{2}\).	Release Area	3/28/2012	Grab 🐇		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	втех	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
WīA .	Release Area	41/10/2012	Grab	:10%	0.21	ND	ND	ND*	1,100	
CUH-5	Release Area	4/10/2012	Grab :	5' 5'	30.71	. 843	6090	6933	1.07/0	Excavated
TO AND THE REAL PROPERTY AND ADDRESS OF THE PARTY OF THE	A CONTRACTOR OF THE SAME OF TH			ra e	2.011	ND	581	581.5	1.600	
CLH-0	- Release Área	4//10//2012	Grab _a	TO SERVICE OF SERVICE				1300 130 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	,	
GUH-6 S4-4	Release Area	4/10/2012	Grab)	4	24.716	304	662 	.966 217	, 3,360	

Analytical Report- H201015	Sample Area	Sample Date	Sample Type	Depth	ВТЕХ	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	втех	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
\$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.

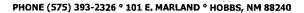
Celey D. Keins

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:

Analyte

EDDY COUNTY, NM

Sample ID: S1 - 1 (H200745-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank

% Recovery

True Value QC

RPD

3.64

Chloride

Result 11800 Reporting Limit 16.0

Reporting Limit

03/30/2012

Analyzed

ND

BS 432

108

400

Qualifier

Sample ID: S1 - 2 (H200745-02)

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

% Recovery

True Value QC

400

Qualifier

Chloride

Result 10000

16.0 03/30/2012 Method Blank ND

BS 432

108

RPD

3.64

Sample ID: S2 - 1 (H200745-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Reporting Limit

Analyzed

Method Blank

BS % Recovery True Value OC

RPD

3.64

· Oualifier

Chloride

Result 336

16.0

03/30/2012

ND

432

108

400

Sample ID: S2 - 2 (H200745-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

3.64

Qualifier

Chloride

Result 352

Reporting Limit 16.0

Analyzed 03/30/2012 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

Cardinal Laboratories

*=Accredited Analyte

within thirty (30) days after completion of

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



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)

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	i 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	d 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, SM4500Cl-B	mg	/kg	Analyze	d 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 lability 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 dams, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thin; (30) days after completion of the applicable service. In no event shall 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 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 & Keene



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. Uability and Damages. Cardinal's liability and client's exclusive remedy for any dam anang, 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 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, methods in successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such darm 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 Cann	non															Proj	ect	Nam	e:			_ <u>A</u>	<u>cher</u>	1 Fre	∍у В	alter	<u>y_</u>		
•	Company Name	Yates Petrol	eum Corpo	oratio	n														Pro	ject	#:				30-	-015	-245	<u>536</u>			
	Company Address:	105 South 4	th Street	,	,		· · · · · · · · · · · · · · · · · · ·											Pı	ojec	t Lo	·c:				Ec	ldy (Cou	nty			
	City/State/Zip:	Artesia, NM	88210																	РО	#:					1032	2020)			
	Telephone No:	575-748-411	11				Fax No:				•						R	éport	For	nat:		Sta	andar	d	[⊒т	RRP	,		NPDE	ËS
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LAB # (lab use only)	H200745 FIEL	.D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #: of Containers	jce.	HNO.	HCI	H,SO ₄	NaOH	None	Other (Specify)	SL=Siudge	sr S=Soll/Solid Specify Other	418,1 801	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	SAR / ESP / CEC	Metals∴As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	≅ृटा ६८८८३/५०३० or BTEX 8260 BC।	N.O.R.M	Chlorides	SAR	Schedule) 24.	
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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 Laboratones 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.

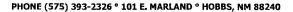
This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

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

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: S1 - 1 (H200745-01)

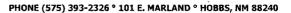
BTEX 8021B	mg,	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	14.8	1.00	03/30/2012	ND	1.97	98.3	2.00	4.99	
Toluene*	85.3	1.00	03/30/2012	ND	2.11	105	2.00	5.41	
Ethylbenzene*	81.7	1.00	03/30/2012	ND	2.13	106	2.00	5.66	
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,	/kg	Analyze	d 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 5-15						 .	
Surrogate: 1-Chlorooctadecane	110	% 57 6-15	:8						

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 whatsoever shall be tigented waved unless made in winting 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 inferruptions, loss of upon 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 stall 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

Project Number: Project Location:

30-015-24536 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	Analyze	d By: AP					S-04
· Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 5	% 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	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

PLEASE NOTE: Liabify 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 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 limitations, business interruptions, loss of use, or loss of profits incurred by client, its subsidiants, affiliates or successors around out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to based upon any of the above stated reasons or otherwise. Results relate only to the samples definified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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	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	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	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 9	% 55 5-15	54						
Surrogate 1-Chlorooctadecane	116 9	% 57.6-15	58				•		

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:

03/29/2012

Sampling Date:

03/28/2012

Reported:

Sampling Type:

Soil

04/03/2012

Cool & Intact

Project Name:

ACHEN FREY BATTERY

Sampling Condition:

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	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	<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 9	% 55 5-15	:4						
Surrogate: 1-Chlorooctadecane	104 9	% 57 6-15	:8						

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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 function, business interruptions, loss of use, or loss of profits incidental by client, its subsidiaries, affiliates or successors anising out of or related to the performance of the services bereunder 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 Labor





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:

Sample Received By:

Jodi Henson

EDDY COUNTY, NM

Sample ID: S3 - 1 (H200745-05)

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*	0.139	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	% 64.4-13	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	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	% 57 6-15	8						

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any 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 consequencial damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred 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





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: Project Location: 30-015-24536

Sample Received By:

Jodi Henson

EDDY COUNTY, NM

Sample ID: S3 - 2 (H200745-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP		77.74			
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 2	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 %	6 64 4-13	4					545	
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	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 %	6 55 5-15	4				, •		
Surrogate 1-Chlorooctadecane	111 %	6 57.6-15	8						

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Celey D. Keena





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: Project Location:

30-015-24536 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
------------	----------------------	------	-----

64 4-134

Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
10.0	03/29/2012	ND	182	91.0	200	26.2	
10.0	03/29/2012	ND	184	92.0	200	4.12	
t	10.0	10.0 03/29/2012	5 10.0 03/29/2012 ND	5 10.0 03/29/2012 ND 182	5 10.0 03/29/2012 ND 182 91.0	5 10.0 03/29/2012 ND 182 91.0 200	5 10.0 03/29/2012 ND 182 91.0 200 26.2

Cumpagata:	1-Chlorooctane
Surrogate:	1-Cnioroociane

126%

55 5-154

Surrogate: 1-Chlorooctadecane

112%

57 6-158

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

Fax To:

(505) 748-4635

Received: Reported: 03/29/2012

04/03/2012

Project Name: Project Number:

30-015-24536

ACHEN FREY BATTERY

EDDY COUNTY, NM

Sampling Date:

03/28/2012

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S4 - 2 (H200745-08)

Project Location:

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 %	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	<u> </u>					
Surrogate 1-Chlorooctadecane	97 1 5	% 57.6-15	8						

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including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the perform



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

AI

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

	Project Manager:	Amber Car	nnon			- -												Pro	ject	Nan	nė:			• /	Ache	n F	rey	Bat	tery		٠,	
	Company Name	Yates Petr	oleum Corpo	oration	<u> </u>														Рго	ojeci	#:				30) <u>-01</u>	5-2	<u>453</u>	6			
	Company Address:	105 South	4th Street														•	F	roje	ct L	oc: _				E	ddy	/ Co	unt	у			
	City/State/Zip:	Artesia, NI	M 88210																	PC	#:					103	320	20				
	Telephone No:	575-748-4	111				Fax No:										R	epor	For	mat	: [x s	ianda	ard			TRF	۲P	Ε	ΠN	PDES	3
	Sampler Signature:	amb	u Can	nsy	\		e-mail:		<u>ас</u>	an	nor	1@	yate	esp	etro	oleu	ım.d	com														_
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AB # (lab use only) The second of the secon	#: H200745 fiel	D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers		HNO		H ₂ SO ₄	of Co.		pecify)	SL=Sludge	GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Offher X	TPH: 418.1 8015M 6018	TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Ci, SO4, Alkaimity)	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	EYEX SCC12/5030 or BTEX 8260	RCI	N.O.R.M	Chlorides	SAR	-Schedule) 24,	Standard TAT
		S1-1		1'	1'	3/28/2012	9:00 AM	LL.	1	x				1	1		_	s z	X		<u> </u>	1		 	<u> </u>	X			x	-	Ť	X
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Relinquish	ea by		Date	111	me	Received by ELC	JI:							<u> </u>		Da			ıımı	•	Tem	perat	ure l	Upor	Re	ceipt	i:	-200		an in Smith A	°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.

Celeg 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:

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

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

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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any other cause whatooever 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 lable 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 among 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 & Keene





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)

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*	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 %	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	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 %	6 55 5-15	:4		•			······································	
Surrogate: 1-Chlorooctadecane	126 %	6 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:

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 Number.

EDDY COUNTY, NM

Project Location: EDDY COU!

Sample ID: WT - 1 (H200842-03)

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	50 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 4-13	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	<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 5-15	4						
Surrogate 1-Chlorooctadecane	98 I	% 57 6-15	8						

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 walved unless made in winting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits Incurrent by client, in subsidiances, affiliates or successed 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:

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 - 5 (H200842-04)

BTEX 8021B	mg/	kg	Analyze	d By: AP			m		
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	Апајуге	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 %	% 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 (505) 748-4635 Fax To:

Received: Reported: 04/12/2012

04/17/2012

Project Name:

ACHEN FREY BATTERY

Project Number: 30-015-24536 Project Location: EDDY COUNTY, NM

Sampling Date: Sampling Type: 04/10/2012

Soil Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: GLH - 6 (H200842-05)

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	04/17/2012	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 4-13	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	14					· · · · · · · · · · · · · · · · · · ·	
Surrogate 1-Chlorooctadecane	114	% 57 6-15	i8						

Cardinal Laboratories *=Accredited Analyte

any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiants, affiliates or successors among out of or related to the perform 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. In no event shall Cardinal be liable for incidental or consequential damage





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: S4 - 4 (H200842-06)

BTEX 8021B	mg/l	(g	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*	es* 17.9 0.150		04/17/2012	ND	6.65	111	6.00	0.890	
Surrogate: 4-Bromofluorobenzene (PIL	137 %	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	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 %	6 55 5-15	:4						
Surrogate: 1-Chlorooctadecane	119 %	6 57 6-15	8						

Cardinal Laboratories

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

Fax To:

Received:

04/12/2012

Sampling Date:

04/10/2012

Reported:

04/17/2012

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

ACHEN FREY BATTERY 30-015-24536

Project Number: Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: S4 - 5 (H200842-07)

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*	0.811	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 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	<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 9	% 57 6-15	8						

Cardinal Laboratories

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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 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 incurred by client, its subsidianes, affiliates or successors anding 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 resons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writen approval of Cardinal Laboratomes

Celeg E. Keine

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 (Corporatio	<u>1</u>														Pre	ojeci	#:_	30-015-24536									<u>.</u> .	
	Company Address:	105 South 4th Str	eet												······		F	Proje	ct L	oc: _	Eddy County									;	
	City/State/Zip:	Artesia, NM 882	10																PC	#:_	:103202									ı	
	Telephone No:	575-748-4111 or !	575-513-8	799_		Fax No:										R	epor	t Fo	mat	: ·[X Standard ☐ TR					TRF	RP.	Ē	NF	PDES	,
	Sampler Signature:	amber Ca	www			e-mail:		acannon@yatespetroleum.com																							
lab use only)						•							Í	٠			•	E			TCL	P	Analy	ze F	or:		T		T	2 hrs	• • •
ORDER	R#:							_	P	reser	vatio	n_& #	of Con	taine	rs	·М.	atrix	13.03	g		T	Ho Se		1	8260					4,48,7	
LAB # (lab use only)	H200842 FIEL	.D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	loe	HNQ	HCI.	H ₂ SO ₄	Na ₂ S ₂ O ₃	None			GW = Groundwater S=Soil/Solid NP=Non-Potable Specty Other	8015	TPH; TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	Ca Cr	Volatiles	Semivolatiles	8೯೯೩ ಕ್ಯೂಪ್ರಿಗಿ5030 or BTEX 8260	RCI	N.O.R.M.	Chiorides		RUSH TAT (Pre-Schadule) -24, 48,72 hrs	Standard TAT
1	I • · · · · · · · · · · · · · · · · · ·	S1-4	, 4'	4'	4/10/2012	11:00 AM		1	х								s	X							х			x	$oldsymbol{\mathbb{I}}$	\mathbf{T}	X
2		S1-5	5'	5'	4/10/2012	11:05 AM		1	Х		\bot		<u> </u>				<u>s</u>	Х				ļ			Х			x L	上	Ш	X
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나	G	LH-5	5'	5'	4/10/2012	11:15 AM		1	X		_		Ŀ	_	<u> </u>	ļ	S	X		4	_	\downarrow	1	_	Х		;	X_	1	$oxed{oxed}$	X,
5	G	LH-6	6'	6'	4/10/2012	11:20 AM		_	X	_	\dashv	-	_	 			s_	X		_	4	_ _	1		X			X.	4	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	X
10		S4-4	4'	4'	4/10/2012	11.25 AM		1	_		\dashv	_	-	lacksquare		-	<u>s_</u>	X		4	_	_	 	1	X	\dashv	_	<u> </u>	4	$igdate{igl}$	X.
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	nstructions;	on a separal	te report	Than		Please sho	w B	TE	X re	suli	s a	s mg	g/kg.	Ple			chlo			Labo Sam VOC	ple (s Fr	Conta ee of	iner Hea	s Inta	act? ace?			(Y Y)	N N	
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Relinquist	Inquished by: Date Time Received by ELOT							Da	ale Time							Upor	Re	ceipt			2.	O '	ne Sta °C) of 1								
																							· ·	1-1-	17	1	4.3	"ay	<u> </u>	* 6 19 1	S CONTRACTOR



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/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.

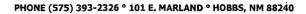
Celey D. Keine

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: Reported: 04/12/2012

04/17/2012

Project Name: Project Number: ACHEN FREY BATTERY 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

Analyte

Result 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: S1 - 5 (H200842-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

RPD Qualifier

Chloride

Chloride

Result 2240

4000

16.0

Reporting Limit

Analyzed 04/16/2012

ND

BS 400

100

True Value OC 400

11.3

Sample ID: WT - 1 (H200842-03)

Chloride, SM4500Cl-B

Analyte

Analyte

mg/kg

Analyzed By: AP

Reporting Limit

Analyzed

Method Blank

BS 400 % Recovery

True Value QC 400

RPD

Chloride

Result 1100

Result

1070

16.0

Reporting Limit

16.0

04/16/2012

ND

100

11.3

Qualifier

Chloride

Sample ID: GLH - 5 (H200842-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

04/16/2012

Method Blank

ND

BS 400 % Recovery 100

True Value QC 400

RPD Qualifier

11.3

Cardinal Laboratories

*=Accredited Analyte

within thirty (30) days after completion of including, without limitation, business interruptions,

Celeny & 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

Method Blank

% Recovery

True Value OC

RPD Qualifier

Chloride

Result 1600 Reporting Limit 16.0

Analyzed 04/16/2012

ND

BS 400

100

400

11.3

Sample ID: S4 - 4 (H200842-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

% Recovery

True Value QC

Qualifier

Qualifier

Chloride

Result 3360

16.0

Reporting Limit

Analyzed 04/16/2012 Method Blank ND

Method Blank

ND

400

BS

400

100

400 ** *

RPD 11.3

Sample ID: S4 - 5 (H200842-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Reporting Limit Result Analyte 2320 Chloride

16.0

Analyzed

04/16/2012

% Recovery 100

True Value QC 400

RPD 11.3

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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. Kune

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 C	Corporatio	n [.]										-				Pro	ject	#:	30-015-24536										
	Company Address:	105 South 4th Stre	eet														Pi	ojec	et Lo	oc: _	Eddy County										
	City/State/Zip:	Artesia, NM 8821	10		······································														ΡO	#:	:1032020										
	Telephone No:	575-748-4111 or 5	575-513-8	799		Fax No:										R	eport	Fori	mat:		St	anda	ard	ſ		TRR	RP.]np	PDES	
	Sampler Signature:	anberla	www			e-mail:	e-mail: acannon@yatespetroleu							ım.c	<u>com</u>				,	X	nalyz	: - -						1			
(lab use	only)													•							TCLP	_	Halyz	e F	or.	7	Т	T	T	<u>_</u>	٠
ORDER	₹#:							i	P	reser	vatio	n 8.7	of C	ontain	ers	М	atrix	i.j		<u>†</u>	OTAL				8					24, 48, 72 hrs	
3 # (lab use only)				Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers							Other (Specify)	adipri	Sroundwater, S=Soil/Solid n-Potable Specify Other	418.1 .801	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg S	Volatiles	Semivolatiles	변기파상 등, 전, 로 75030 or BTEX 8260	ŔĊĬ	N.O.R.M.	SAR		RUSH TAT (Pre-Schedule) 24,40	Standard IAI
		S1-4	4'	4'	4/10/2012	11:00 AM		1	Х								S	Х							Х	7.1		x	\prod		Х
9		S1-5	5'	5'	4/10/2012	11:05 AM		1	Х					<u> </u>			S	Х							х		;	x _	\perp	\square	X
3	V	NT-1	1'	1'	4/10/2012	11:10 AM	<u> </u>	1	Х								s	х							х			x L			X
L)	. G	SLH-5	5'	5'	4/10/2012	11:15 AM		1	X						L		s_	Х							х			x _			Ä
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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.

Celeg 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:

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:

Analyte

Analyte

EDDY COUNTY, NM

Sample ID: S1-6 (H201015-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

% Recovery

True Value QC

RPD

0.00

RPD

0.00

0.00

Chloride

Result 2000 Reporting Limit 16.0

05/07/2012

Analyzed

100

400

Qualifier

Sample ID: S1-7 (H201015-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

400

Chloride

Chloride

Result 1310 Reporting Limit Analyzed 16.0 05/07/2012 Method Blank ND

BS 400

BS

400

% Recovery 100

True Value QC

Qualifier

Sample ID: S1-8 (H201015-03)

Analyte

Chloride, SM4500CI-B

mg/kg

Reporting Limit

16.0

Result

1580

Analyzed By: AP

Analyzed 05/07/2012 Method Blank ND

BŞ 400 % Recovery

100

True Value QC RPD Qualifier

Cardinal Laboratories

*=Accredited Analyte

rer shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. including, without limitation, 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

Celean D. Keene Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



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 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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE. Liability and Damages. Cardinal's liability and client's exclusive remety 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 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 profits incurred by client, its subsidiants, 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 related noty to the samples identified above. This report shall not reproduced except in full with written approval of Cardinal Liboratories.

Celeg D. Keine

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 Cann	non			· · · · · · · · · · · · · · · · · · ·								-		 .		Proje	ct Na	ame;			/	<u>\che</u>	n F	rey E	Batte	ary			
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	Company Address:	105 South 4	th Street	 								٠,				· —		Pro	ject	Loc:			·	E	ddy	Cou	unty	-			
	City/State/Zip:	Artesia, NM	88210			· · · · · · · · · · · · · · · · · · ·													F	°O#:					103	3202	20_				
	Telephone No:	575-748-411	11 or 575-	513-87	799	·	Fax No:										Rep	ort F	orm	at:	X	Stanc	lard			TRŖ	Р		NPC	ES	
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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. 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:

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)

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 %	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	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 %	6 55 5-15	4					<u> </u>	— <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Surrogate: 1-Chlorooctadecane	109 9	6 57 6-15	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remety 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 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 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.

Celey D. Keene



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: 222					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 (PIL	201 %	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	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 9	6 55 5-15	4						
Surrogate 1-Chlorooctadecane	93 7 9	6 57 6-15	8						

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PLEASE NOTE Usbility and Camages. 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 winting 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 Liboratomes.

Celey & 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: Sample Received By: Cool & Intact Jodi Henson

Project Number:

30-015-24536

Project Location:

EDDY COUNTY, NM

Sample ID: S1-8 (H201015-03)

BTEX 8021B	mg,	/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	% 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	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	% 55.5-15	4				-		***************************************
Surrogate. 1-Chlorooctadecane	110	% 57 6-15	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE. Uability and Damages. Cardinal's liability and client's exclusive remety for any claim ansing, 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 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 incurred by client, its subsidiances, affiliates or successors anding 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.

Celey D. Keine



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

PEASE 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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, neducing, without limitation, business interruptions, loss of loss of loss of loss of profits incurred by client, its subsidiances, affiliates or successors arising out of or nelated 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.

Celey D. Keene

ARDINA 101 Fast

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	1e; _				<u>Ache</u>	en F	rey	Bat	tery			
	Company Name	Yates Petroleum	Corporat	ion														Pro	oject	#:_				3(0-01	5-2	<u>453</u>	6			
	Company Address:	105 South 4th Str	eet	· · · .												•	· F	roje	ct L	oc: _				E	ddy	, Co	unty				
	City/State/Zip:	Artesia, NM 882	10																PO	#:_					10:	3202	20 -				
	Telephone No:	575-748-4111 or	575-513	-8799		Fax No:								,		R	epor	t For	mat	: [x e	Stand	lard	- ,		TRF	ЯР	[NF	PDES	;
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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/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)

Celig D. Keens

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



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 Number:
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	8S	% 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 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	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	0						
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 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 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, wethout limitation, business interruptions, loss or use, or loss of profits incurred by client, its subdidiances, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to 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



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

Fax To:

o:

(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 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	<u> </u>				
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	0						
Surrogate 1-Chlorooctadecane	90 3	% 63 6-15	4						

Sample ID: S4 - 6 (H201180-03)

Chloride, SM4500Cl-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	

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*=Accredited Analyte

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Celey D. Keine



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

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.

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*=Accredited Analyte

Celeg D. Keine

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			 				,							, Pro	oject	Nan	ne: _			<u> </u>	che	n Fr	еу В	atter	<u>у</u>		
	Company Name	Yates Petroleum C	orporatio	n	· · · · · · · · · · · · · · · · · · ·					· · · ·			:.		-	, ′	Pro	ojeć	t,#:		·		30	-015	-24	<u>536</u>			
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	City/State/Zip:	Artesia, NM 8821	0			-				. ,		·· :		•				PC) #: _	-	· ·			103	2020	<u>)</u>			
	Telephone No:	575-748-4111 or 5	75-513-8	799	,	Fax No:		,							: R	épor	t Foi	mat	. [x s	tand	and	•	<u></u> 1	RRF) .		IPDE:	s
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