MARTIN YATES, III

FRANK W. YATES

S.P. YATES



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES CHAIRMAN OF THE BOARD

JOHN A. YATES JR.

SCOTT M YATES

JAMES S. BROWN

JOHN D. PERINI CHIEF FINANCIAL OFFICER

JORGE S. MENDOZA

RECEIVED

MAR - 7 2012

NMOCD ARTESIA

March 6, 2012

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

Re:

Deeter ADV #1 30-015-25638

Section 27, T18S-R26E Eddy County, New Mexico

Dear Mr. Bratcher.

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on August 31, 2011 (2RP-895). Approximately six feet of impacted soils were excavated and at this depth we hit some sort of a hard layer (not bedrock). We could see that release seeped through this layer; however, neither a backhoe nor trackhoe could break the layer for sample delineation. Yates Petroleum then obtained an air rig crew to take delineation samples. The analytical results from delineation are enclosed. On February 21, 2012 I visited the District II OCD office to discuss Yates' proposal of laying a liner in the bottom of the excavation and then backfilling. This proposal was accepted by OCD personnel and I sent you confirmation email the same day of our verbal discussion. On March 5, 2012 the liner was laid and the excavation was backfilled. Yates Petroleum Corporation requests closure based on sample delineation and approval by OCD personal of work proposal

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)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. 1st Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

				0	PERA	TOR		Initia	l Report	\boxtimes	Final Report
Name of Co				OGRID Nur	nber	Contact					
Yates Petro	leum Corp	oration		25575		Amber Can					
Address	74 -4					Telephone 1					
105 S. 4 TH S				API Number		575-748-14					
Facility Nar Deeter ADV				30-015-2563		Facility Typ Battery	e				
Deeter AD	/ #1			30-013-2303	0	Dattery	3*a\				
Surface Ow	ner			Mineral C)wner	,		Lease N	No.		
Fee											
						N OF RE					
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/West Line	County		
M	27	18S	26E	560		South	990	West	Eddy		
	<u> </u>		L	Latitude 32.					l		
r'				<u>NAT</u>	URE	OF REL					
Type of Relea	ase			•	,	Volume of	Release	Volume F	Recovered		
Crude Oil Source of Re	lease					Date and F	lour of Occurrence		Hour of Dis	covers	<i>y</i>
Hole in swed		on tank				8/31/2011;		8/31/2011		covery	,
Was Immedia		Siven?				If YES, To	Whom?				
		×	Yes	No 🔲 Not Re	equired	Mike Brate	ther/NMOCD II				
By Whom? Robert Asher	Yates Petro	oleum Corpor	ation			Date and H 8/31/2011;	lour PM (E-mail)				
Was a Watero							lume Impacting th	ne Watercourse.	<u> </u>		
If a Watercou	rse was Imp	pacted, Descri	Yes ⊠ be Fully.*			N/A					
N/A											
Describe Cau					.:11 TEL.	11	00 1 .1	. 11	1 1 1	1*	٠
A note/split if from service.	1 a 4 by 3	swedge on b	ick of oil i	ank caused the sp	111. I N	e wen was snu	it off and the two	oil tanks and gun b	barrei nave i	seen ai	sconnected
Describe Area	Affected a	nd Cleanup A	ction Tak	en.*							
An approxima	ate area of 9	' X 30' (on p	roduction	pad inside the unl	ined be	rm). Both oil	tanks and the gun	barrel will be rem	oved from	the affe	ected area so
								proved disposal fac			
								itial analytical resu e analytical results			
plan will be si	ubmitted to	the OCD. De	port, C-14	ound Water: 50-	99' (75'	Section 27.	T18S-R26E. NM	OSE), Wellhead	Protection	Area:	No. Distance
to Surface W	ater Body:	> 1000', SIT						al of work by OC			
Petroleum re			 								
								derstand that pursive actions for rele			
								port" does not relie			
								at to ground water,			
or the environ	ment. In ad	ldition, NMO	CD accept					esponsibility for co			
federal, state,	or local law	s and/or regu	lations.								
,	\wedge	\cap					OIL CONS	ERVATION	DIVISIO	<u>N</u>	
Signature:	limh	0 N (CL)	nnM								
Printed Name:	Amber Car				1	Approved by	District Supervisor	r:			
Title: Environ						Approval Date	a•	Expiration I	Date:		
E-mail Addres						Conditions of		1 Expiration C			
L-man Addres	o. avaimon	- Julespendie				Zonamons Of	Appioval.		Attached		
Date: Tuesday	, March 06,	2012	Phone: 5	75-748-4111	2RP-895						



Pumping Unit

N

M/MB





Deeter ADV #1

30-015-25638

Section 27, T18S-R26E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

Analytical Results attached

Prepared by Amber Cannon Environmental Regulatory Agent

Deeter ADV Com #1

Analytical Report 4 2427323 & 427342	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO.		Chlorides
Sample 1 (1')	Release Area	9/7/2011	Grab/Backhoe	1'	644	7760	14100	21900	63 3
Sample 2 (4')	Release Area	9/7/2011	Grab/Backhoe	4'	496	5740	12000	17700	17.5

Analytical Report H102699	Sample Area	Sample Date	^ Sample Type	Depth	BTEX		DRO	TOTAL	.Chlorides
MB-23 - ₹	Release Area	12/12/2011	Grab/Trackhoe	8' BSL	182 2	2290	5820	8110	16 .
MB-4		12/12/2011	Grab/Trackhoe	10' BSL	185 35	2510	5200	7710	ND
MB-6	Release Area	12/12/2011	Grab/Trackhoe	12' BSL	154.49	1190	4300	5490	208
\$11 SB 27 \$1.14	Release Area	12/12/2011	Grab/Trackhoe	8' BSL	423 3	3410	7450	10860	144
ASEALASBANAVES	Release Area	12/12/2011	Grab/Trackhoe	10' BSL	209.96	2320	4990	7310	304
SB 5.1s. 35	Release Area	12/12/2011	Grab/Trackhoe	11' BSL	93 22	1250	4100	5350	288

					والمناط المنتقل					
Analytical Report	Sample A	rea	Sample Date	Sample Type	Depth 4	BTEX	GRO	DRO	TOTAL	Chlorides
Nio Vi	Release /	Area	1/26/2012	Grab/Split Spoon	10' BSL	154 55	927	2860	3787	
N-12	Release /	Area	1/26/2012	Grab/Split Spoon	12' BSL	24.92	431	3410	3841	
er dentagen.	Release,	Area	1/26/2012	Grab/Split Spoon	14' BSL	202.62	2190	6140	8330	
N=16(\$\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac	Release /	Area	1/26/2012	Grab/Split Spoon	16' BSL	25.28	291	1920	2211	Si Ali
N-18	Release A	Area	1/26/2012	Grab/Split Spoon	18' BSL	ND	ND	68 9	68 9	
Ñ 22	Release /	Area	1/26/2012	Grab/Split Spoon	22' BSL	ND	14 4	115	129 4	
M:19 2.52	Release /	Area	1/26/2012	Grab/Split Spoon	14' BSL	94.7	1720	5570	7290	
M-185	Release,	Area	1/26/2012	Grab/Split Spoon	18' BSL	4.312	96 8	983	1079 8	
M ¹ 20	Release /	Area	1/26/2012	Grab/Split Spoon	20' BSL	ND	ND	12 7	12 7	
M-22,	Release /	Area	1/26/2012	Grab/Split Spoon	22' BSL	ND	ND	ND	ND	
THE STATE OF THE S	Release	Area	1/26/2012	Grab/Split Spoon	14' BSL	29.06	244	1410	1654	
SamuelS:16rencel	Release	Area	1/26/2012	Grab/Split Spoon	16' BSL	ND	136	308	321.6	
S-20	Release	Area	1/26/2012	Grab/Split Spoon	20' BSL	0 454	18 3	197	215 3	
S 22	Release	Area	1/26/2012	Grab/Split Spoon	22' BSL	30 5	368	2160	2528	
11.51 S.2 I D	Release	Area	1/26/2012	Grab/Split Spoon	24' BSL	0 299	ND	14.3	14 3	
FIG. 5:26-4. See 15	Release	Area	1/26/2012	Grab/Split Spoon	26' BSL	ND	115	20.9	32 4	

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 75', Section 27-18S-26E, per NMOSE)

All results are ppm.Chlorides for documentation.

Released. 167 B/O; Recovered 0 B/O. Release Date: 8/31/2011

Amber Cannon

From:

Amber Cannon

Sent:

Tuesday, February 21, 2012 2:53 PM

To:

Bratcher, Mike, EMNRD (mike.bratcher@state.nm.us)

Cc:

Bob Asher; Jerry Fanning; Amanda Trujillo

Subject:

Deeter ADV #1

Mike,

Per our conversation this afternoon concerning the Deeter ADV #1, Yates Petroleum Corporation is going to lay a liner in the bottom of our excavation and backfill.

A Final C-141 along with a site diagram and analytical results will be submitted to your office once backfill has been completed.

Thank you,

Amber Cannon Environmental Regulatory Agent Yates Petroleum Corporation



February 03, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: DEETER ADV #1

Enclosed are the results of analyses for samples received by the laboratory on 01/27/12 10:03.

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/qa/lab_accredited 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.

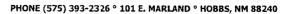
Celey D. Keine

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

(505) 748-4635 Fax To:

Received:

01/27/2012

Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: N 10 (H200204-01)

BTEX 8021B	mg/	kg	Analyzed By: AP		····				S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.45	0.500	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	38.4	0.500	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	42.6	0.500	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	71.1	1.50	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate 4-Bromofluorobenzene (PIL	143 5	% 64 4-13	14						
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	927	10.0	01/30/2012	ND	184	92.1	200	0.807	
DRO >C10-C28	2860	10.0	01/30/2012	ND	224	112	200	2.97	
Surrogate 1-Chlorooctane	108	% 55 5-15	i.4						
Surrogate 1-Chlorooctadecane	98 6	% 57 6-15	i8						

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 waved unless made in which and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed waved unless made in which pad received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed waved unless made in which pad received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed waved unless made in which pad received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed any of the above stated reasons or otherwise, 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 whiteher 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 whiten approval of Cardinal Laboratones.





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

Fax To:

(505) 748-4635

Received:

01/27/2012

Reported:

02/03/2012

Project Name:

DEETER ADV #1

Project Number: Project Location:

30-015-25638

27-18S-26E, EDDY COUNTY

Sampling Date:

01/26/2012

Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: N 12 (H200204-02) BTEX 8021B	mg,	/ka	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2012	ND	2.03	101	2.00	1.25	•
Toluene*	2.93	0.050	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	7.39	0.050	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	14.6	0.150	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate: 4-Bromofluorobenzene (P1L	158	% 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	431	10.0	01/30/2012	ND	184	92.1	200	0.807	
DRO >C10-C28	3410	10.0	01/30/2012	ND	224	112	200	2.97	
Surrogate. 1-Chlorooctane	125	% 55 5-15	:4						
Surrogate. I-Chlorooctadecane	123	% 57 6-15	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim amining, whether based in contract or tort, shall be limited to the amount paid by client for analysiss. 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) clays after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business indemuplicans, loss of isse, or loss of profits inclured 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 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.





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

Fax To:

(505) 748-4635

Received:

01/27/2012

Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Project Name:

12/03/2012

Sampling Condition:

Cool & Intact

Project Name:

DEETER ADV #1

Cool & Intac

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: N 14 (H200204-03)

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*	3.32	1.00	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	47.5	1.00	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	56.8	1.00	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	95.0	3.00	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate. 4-Bromofluorobenzene (PIL	135	% 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	2190	50.0	01/31/2012	ND	184	92.1	200	0.807	
DRO >C10-C28	6140	50.0	01/31/2012	ND	224	112	200	2.97	
Surrogate: 1-Chlorooctane	128	% 55 5-15	i4						
Surrogate: I-Chlorooctadecane	102	% 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 deemed valved 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 ansing 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 into the samples definited above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.



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

Fax To:

(505) 748-4635

Received: Reported: 01/27/2012

02/03/2012

DEETER ADV #1

Project Number: Project Location:

Project Name:

30-015-25638

Sampling Date:

01/26/2012 Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

27-18S-26E, EDDY COUNTY

Sample ID: N 16 (H200204-04)

BTEX 8021B	mg/	kg	Analyze					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	1.83	0.050	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	8.15	0.050	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	15.3	0.150	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate 4-Bromofluorobenzene (PIL	178 9	% 64 4-13	4		-				
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	291	10.0	01/30/2012	ND	184	92.1	200	0.807	
DRO >C10-C28	1920	10.0	01/30/2012	ND	224	112	200	2.97	
Surrogate 1-Chlorooctane	109 5	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	104 9	% 57 6-15	8						

Cardinal Laboratories *=Accredited Analyte

any other cause whatsoever shall be deemed 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 interruptions, loss of use, or loss of profits incidental by Client, its subsidiaries, 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. Keene, Lab Director/Quality Manager

Celeg D. Keene



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

Fax To:

(505) 748-4635

Received:

01/27/2012

Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Name:

DEETER ADV #1

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: N 18 (H200204-05)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	<0.050	0.050	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	<0.050	0.050	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	<0.150	0.150	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate. 4-Bromofluorobenzene (PIL	112 9	% 64 4-13	4					*	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/30/2012	ND	184	92.1	200	0.807	
DRO >C10-C28	68.9	10.0	01/30/2012	ND	224	112	200	2.97	
Surrogate: 1-Chlorooctane	106 9	% 55 5-15	·						
Surrogate: 1-Chlorooctadecane	148 9	% 57 6-15	8						

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Celeg 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:

01/27/2012

Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Project Name:

DEETER ADV $\#\bar{1}$

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: N 22 (H200204-06)

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	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	<0.050	0.050	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	<0.050	0.050	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	<0.150	0.150	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate: 4-Bromofluorobenzene (PIL	117 %	% 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	14.4	10.0	01/30/2012	ND	184	92.1	200	0.807	
DRO >C10-C28	115	10.0	01/30/2012	ND	224	112	200	2.97	
Surrogate 1-Chlorooctane	99 8	% 55 5-15	i 4						
Surrogate 1-Chlorooctadecane	122 9	% 57 6-15	ī8						

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Received:

01/27/2012

Sampling Date:

01/26/2012

Reported:

Sampling Type:

Soil

02/03/2012

Sampling Condition:

Cool & Intact

Project Name:

DEETER ADV #1

Project Number: Project Location:

30-015-25638 27-18S-26E, EDDY COUNTY Sample Received By:

Jodi Henson

Sample ID: M 14 (H200204-07)

BTEX 8021B	mg/kg		Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	17.5	0.500	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	28,3	0.500	02/01/2012	МD	2.22	111	2.00	0.577	
Total Xylenes*	48.9	1.50	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate 4-Bromofluorobenzene (PIL	137	% 64 4-13	14						
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1720	50.0	01/31/2012	ND	186	93.0	200	8.98	
DRO >C10-C28	5570	50.0	01/31/2012	ND	212	106	200	4.78	
Surrogate: 1-Chlorooctane	131	% 55 5-15	i 4						<u> </u>
Surrogate. 1-Chlorooctadecane	111	% 57.6-15	i8						

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Received: Reported: 01/27/2012

02/03/2012

DEETER ADV #1

Project Name: Project Number:

30-015-25638

27 100 200 50

Sampling Date:

01/26/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

.

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: M 18 (H200204-08)

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	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	0.332	0.050	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	1.08	0.050	02/01/2012	ND	2,22	111	2.00	0.577	
Total Xylenes*	2.90	0.150	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate 4-Bromofluorobenzene (PIL	141 5	% 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	96.8	10.0	01/31/2012	ND	186	93.0	200	8.98	
DRO >C10-C28	983	10.0	01/31/2012	ND	212	106	200	4.78	
Surrogate 1-Chlorooctane	103 5	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	106	% 57 6-15	8						

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Received:

01/27/2012

Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Project Location:

27-18S-26E, EDDY COUNTY

Jodi Henson

Sample ID: M 20 (H200204-09)

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	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	<0.050	0.050	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	<0.050	0.050	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	<0.150	0.150	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate 4-Bromofluorobenzene (PIL	109 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	<10.0	10.0	01/31/2012	ND	186	93.0	200	8.98	
DRO >C10-C28	12.7	10.0	01/31/2012	ND	212	106	200	·4.78	
Surrogate. 1-Chlorooctane	92 3	% 55 5-15	·4						
Surrogate 1-Chlorooctadecane	116 9	% 57 6-15	8						

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01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: M 22 (H200204-10)

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	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene* .	<0.050	0.050	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	<0.050	0.050	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	<0.150	0.150	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate. 4-Bromofluorobenzene (PIL	109 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	<10.0	10.0	01/31/2012	ND	186	93.0	200	8.98	
DRO >C10-C28	<10.0	10.0	01/31/2012	ND	212	106	200	4.78	
Surrogate 1-Chlorooctane	100 5	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	118 9	% 57 6-15	8						

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Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: S 14 (H200204-11)

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*	<0.500	0.500	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	2.78	0.500	02/01/2012	ND	2.20	110	2.00	0.126	
Ethylbenzene*	7.08	0.500	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	19.2	1.50	02/01/2012	ND	7.03	117	6.00	1.48	
Surragate 4-Bromofluorobenzene (PIL	139 5	% 64 4-13	4					• • • •	
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	244	10.0	01/31/2012	ND	186	93.0	200	8.98	
DRO >C10-C28	1410	10.0	01/31/2012	ND	212	106	200	4.78	
Surrogate 1-Chlorooctane	109	% 55 5-15	-4					.,	
Surrogate 1-Chlorooctadecane	113 5	% 57 6-15	8						

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01/27/2012

Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Project Name:

12/03/2012

Sampling Type.

Cool & Intact

Project Number

DEETER ADV #1 30-015-25638

Sample Received By:

Jodi Henson

Project Number: Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: S 16 (H200204-12)

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	02/01/2012	ND	2.03	101	2.00	1.25	
Toluene*	<0.050	0.050	02/01/2012	ND .	2.20	110	2.00	0.126	
Ethylbenzene*	<0.050	0.050	02/01/2012	ND	2.22	111	2.00	0.577	
Total Xylenes*	<0.150	0.150	02/01/2012	ND	7.03	117	6.00	1.48	
Surrogate 4-Bromofluorobenzene (PIL	120 %	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	13.6	10.0	01/31/2012	ND	186	93.0	200	8.98	
DRO >C10-C28	308	10.0	01/31/2012	ND	212	106	200	4.78	
Surrogate 1-Chlorooctane	98 5	% 55 5-15	:4						
Surrogate 1-Chlorooctadecane	115 %	% 57 6-15	8						

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(505) 748-4635 Fax To:

Received:

01/27/2012

Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: S 20 (H200204-13)

BTEX 8021B	mg,	'kg	Analyze	d By: AP				.,, · <u>.</u> · . · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2012	ND	1.63	81.4	2.00	8.01	
Toluene*	<0.050	0.050	02/02/2012	ND	2.00	100	2.00	7.90	
Ethylbenzene*	<0.050	0.050	02/02/2012	ND	2.13	107	2.00	7.08	
Total Xylenes*	0.454	0.150	02/02/2012	ND	6.67	111	6.00	7.25	
Surrogate. 4-Bromofluorobenzene (PIL	122	% 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	18.3	10.0	01/31/2012	ND	186	93.0	200	8.98	
DRO >C10-C28	197	10.0	01/31/2012	ND	212	106	200	4.78	
Surrogate 1-Chlorooctane	104	% 55 5-15	ī4						
Surrogate: 1-Chlorooctadecane	121	% 57 6-13	ī <i>8</i>				•		

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Received:

01/27/2012

Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Cool & Intact

Project Name:

DEETER ADV #1

Sampling Condition:

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Soil

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: S 22 (H200204-14)

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*	<0.050	0.050	02/02/2012	ND	1.63	81.4	2.00	8.01	
Toluene*	2.75	0.050	02/02/2012	ND	2.00	100	2.00	7.90	
Ethylbenzene*	6.15	0.050	02/02/2012	ND	2.13	107	2.00	7.08	
Total Xylenes*	21.6	0.150	02/02/2012	ND	6.67	111	6.00	7.25	
Surrogate 4-Bromofluorobenzene (PIL	197 %	% 64 4-13	4						
ТРН 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	368	10.0	01/31/2012	ND	186	93.0	. 200	8.98	
DRO >C10-C28	2160	10.0	01/31/2012	NĐ	212	106	200	4.78	
Surrogate. 1-Chlorooctane	1113	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	103 9	% 57 6-15	8						

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Received:

01/27/2012

Sampling Date: Sampling Type: 01/26/2012

Reported:

02/03/2012

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

30-015-25638

Sample Received By:

Jodi Henson

Project Number: Project Location:

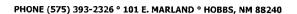
27-18S-26E, EDDY COUNTY

Sample ID: S 24 (H200204-15)

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	02/02/2012	ND	1.63	81.4	2.00	8.01	
Toluene*	0.184	0.050	02/02/2012	ND	2.00	100	2.00	7.90	
Ethylbenzene*	0.115	0.050	02/02/2012	ND	2.13	107	2.00	7.08	
Total Xylenes*	<0.150	0.150	02/02/2012	ND	6.67	111	6.00	7.25	
Surrogate 4-Bromofluorobenzene (PIL	112 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	<10.0	10.0	01/31/2012	ND	186	93.0	200	8.98	
DRO >C10-C28	14.3	10.0	01/31/2012	ND	212	106	200	4.78	
Surrogate: 1-Chlorooctane	97 5	% 55.5-15	4						
Surrogate 1-Chlorooctadecane	130 5	% 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 analysess. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in winding 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 anising 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.





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

Fax To:

(505) 748-4635

Received:

01/27/2012

Sampling Date:

01/26/2012

Reported:

02/03/2012

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

30-015-25638

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: S 26 (H200204-16)

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	02/02/2012	ND	1.63	81.4	2.00	8.01	
Toluene*	<0.050	0.050	02/02/2012	ND	2.00	100	2.00	7.90	
Ethylbenzene*	<0.050	0.050	02/02/2012	ND	2.13	107	2.00	7.08	
Total Xylenes*	<0.150	0.150	02/02/2012	ND	6.67	111	6.00	7.25	
Surrogate 4-Bromofluorobenzene (PIL	110 :	% 64 4-13	4						
TPH 8015M	mg/	'kg	Analyze	d By: MS				4	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.5	10.0	01/31/2012	ND	186	93.0	200	8.98	
DRO >C10-C28	20.9	10.0	01/31/2012	ND	212	106	200	4.78	
Surrogate 1-Chlorooctane	101	% 55 5-15	4						
Surrogate: 1-Chlorooctadecane	127	% 57 6-15	8						

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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 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 lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by cherit, its subsidiaries, 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. Keena



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 Lability 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 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 subsidianes, affiliates or successors anising 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



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	Project Manager: Amb	er Cannon	vooration													Pro	oject	Nar	ne;_					Dee	eter	ADV	<u>/ #1</u>						
	Company Name Yate	s Petroleum Corpora	tion				····												Pre	ojec	t #:_					30-	015	-256	<u> </u>				
	Company Address: 105	South 4th Street																F	roje	ct L	oc:		_	27	'-18	S-2	6E,	Edo	ly C	oun	iy		
	City/State/Zip: Arte	sia, NM 88210									<u> </u>									PC)#:_						103	2020)				
	Telephone No: 575-	-748-4111				Fax No:	_	575	-74	8-41	31						Re	por	t Foi	ınat	:	х	Star	ndar	d			RRP	,		NPD	ES	
	Sampler Signature:	indoca Can	<i>u</i> un			e-mail:		<u>ác</u>	an	nor	1@	yat	esp	<u>et</u>	rol	<u>eu</u>	m.c	om	!								:						
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ORDER	#:		7		<u> </u>	[\neg	_		Prese	rvatio	on & #	of Co	ontan	ners	+	Ma	lrix	- P.1					g,		-	e			} /		4.	7
LAB # (lab use only)	H201) 204 FIELD CO	DDE	10, 10, 1/59/5015 3:00 bW 1 X X 10 0 0 b b c 2.00 c											DW=Drinking Water SL=Sludge GW = Groundwater S=SoutSolid		1 ~	TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl. SO4, Alkalinity)	SAR / ESP./ CEC	s Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	STEX 571.13/5030 or BTEX 8260		Chiorides	SAR		RUSH TAT (Pre-Schedule) 24,	Standard 1A1			
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2	N12		12'	12'	1/26/2012	3:00 PM		1	X								5	3	Х								x				\Box		X
3	N14		14'	14'	1/26/2012	11:00 AM		1	Х									3	X								Х						x
4	N16		16'	16'	1/26/2012	10:45 AM		1	Х								5	3	X								x						X
5	N18		18'	18'	1/26/2012	10:13 AM		1	Х								٤	3	X								X						X
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Special I	nstructions:	TPH: 8015B, B	51EX: 8								. !!	nanı	кус	u.							San VO	nple Cs F	tory Cor ree	ıtain of H	ers lead	Intaç spac	ct? ce?				` ' I	N N	ı
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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	Project Manager:	Amber Cannon	m Corporation																Pro	ject	Nar	ne:					Der	<u>eter</u>	AD	V #	<u>/1</u>			
	Company Name	Yates Petroleum C	orporatio	on																Pro	ojec	t #:		····			30	-01	5-25	563	8			
	Company Address:	105 South 4th Stre	et														_		P	roje	ct L	oc:			27	'-18	IS-2	26E	, Ed	ldy	Coı	inty		
	City/State/Zip:	Artesia, NM 8821	0				··						,								PC) #: _.						103	202	20				
	Telephone No:	575-748-4111					Fax No:		575	5-74	8-41	31				–		Re	port	For	mat	:	×	Star	daro	d	[_j-	TRRI	Р	Γ	ДΝ	PDE:	s
	Sampler Signature:	ambul	Car	こし	EX -		e-mail:		ac	an	nor	<u>1@</u>)yat	<u>esp</u>	etr	ole	– eun	1.C	<u>oṁ</u>									•						_
lab use	only)		7																		-		T/	LP	An	alyz	e Fo	<u>r:</u>		-		- ان	_]
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ORDEF	R #:		<u> </u>	Preservation & # of Containers										\bot	Mat		13					Şe			8					48,7	<u> </u>			
LAB # (lab use only)	H200204 FIE	_D CODE		Beginning Depth	Beginning Depth Ending Depth Date Sampled Time Sampled Field Filtered Total # of Containers Ice HNO ₃ HC. H ₂ SO ₄ NaOH										Negario	Wone (Specific)	Other (Specify) DW=Drinking Water St =Studie	GW = Groundwater S#Soil/Solid	Specify	TPH: 418.1 8015M co²	TPH. TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anıons (Cl. SO4, Alkalınity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	ĕ	ROI	N.O.R.M	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48,72	Standard TAT
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13		S20		20'	20'	1/26/2012	2:00 PM		1	×						ŀ		S	i	X			· ·					Х						х
14		S22		22'	22'	1/26/2012	2.00 PM		1	X								S		Х								Х						X
15		S24		24'	24'	1/26/2012	1:50 PM		1	X								S		X					·			X					_[_	X
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ipecial (Instructions:	TPH: 801	5B, BT	EX: 8	EX: 8021B. Please show BTEX results as mg/kg. Thank you.									_l_			I		Šán	nple Os F	Con	táin of H	ers I	snac	ct?	_L \$1,7		٠,	1	L N N	- 1			
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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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	Project Manager:	Amber Canno	on																Pro	ject	Nan	ne: _				D€	ete	r AC)V #	1			
	Company Name	Yates Petrole	um Corporatio	on																Pro	oject	#:				30	<u> </u>	5-2	5638	3			
	Company Address:	105 South 4t	h Street														_		Р	roje	ct L	oc:_		- 2	27-1	85-	-26E	<u>.</u> , Εα	ddy (Cou	nty		
	City/State/Zip:	Artesia, NM	88210																		PC	#:_					10:	3202	20_				
	Telephone No:	575-748-411	1				Fax No:		575	5-74	8-41	31						Re	port	For	mat		x s	tanda	ard			TRR	{P		NPI	DES	i
	Sampler Signature:	: (Umb	Lan	IM			e-mail:		<u>ac</u>	an	nor	<u>1@</u>	ya	<u>tes</u>	pe	trole	eur	n.c	<u>om</u>														, -
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LAB#(jab use only)	H200204 FIEL	LD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	lce	HNO ₃	HC!	H ₂ SO ₂	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid	U)	TPH 4181 8015M 8015B	TPH. TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl., SO4, Aikalinity)	Metals. As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	NORM Chlorides	SAR		RUSH ȚAT (Pre-Schedule) 24,	
		N10		10'	10'	1/26/2012	3:00 PM		1	Х	,							S		X							х						Х
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3		N14		14'	14"	1/26/2012	11:00 AM		1	Х								S		Х							Х						Х
4		N16		16'	16'	1/26/2012	10:45 AM		1	Х							┸	_s		Х						<u> </u>	X			\perp		Ш	X
5		N18		18'	18'	1/26/2012	10:13 AM		1	Х					\perp		┸	S		Х			┸	_			X		\bot			L	<u> </u>
ط	A	N22		22'	22'	1/26/2012	10:13 AM		1	Х							\perp	<u>S</u>		Х				_		$oxed{oxed}$	X			1			Х
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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	Project Manager:	Amber Cannon			(000) 000 101	, , , , , (555) 551											Pro	oiec	t Na	me:				[Deet	er A	νDV	#1			
	Company Name	Yates Petroleum Corpor	ation										,			_				:t #:					30-0						
			ation																	•											
	Company Address:	105 South 4th Street		·····							···-					-	F	Proje	ect L	.oc:			27	7-18S	<u>3-26</u>	<u>=, </u>	<u>:dd</u>)	y Co	ounty	<u> </u>	
	City/State/Zip:	Artesia, NM 88210						·											P	O #: .					10	0320)20				
	Telephone No:	575-748-4111				Fax No:		575	5-74	8-41	31					_	Repor	t Fo	rma	t:	х	Stan	dard	t		TR	RP			NPDE	ΞS
	Sampler Signature:	ambula	unn	W	<u> </u>	e-mail:		<u>ac</u>	can	no	<u>n@</u>	yai	tes	pet	role	un	n.com	<u> </u>					Δ'n	alyze	Eori					_	- ,
(lab use o	only)																				TC			aryze		Τ	Т		П	\dashv	' – ر م
ORDEF	**:									Prese	ervatio	on & 1	of C	ontai	ners	_	Matrix	╁	Т	Ι Τ	тот	AL	\dashv	+	+	-				1	<u>.</u>
LAB # (lab.use only)	#200204 FIEL		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers		HNO3			NaOH			OweDrinking Water Stade		TPH 418.1 8015M 8015B	TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalınıty)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles Semvolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O.R M	Chlorides	SAR	or to telephone TAT HOLIF	Standard TAT
11	V	S14	14'		1/26/2012	3:00 PM		1					\Box				S	X	$\overline{}$						×						Х
12		S16	16'	16'	1/26/2012	3:00 PM		1	X				\perp	_	_	\perp	S	<u> </u> x					_	\perp	x	_	L			\perp	X
13		S20	20'	20'	1/26/2012	2:00 PM	<u> </u>	1	X				\perp	_	_	_	S	X	-		\dashv	_	_	4	↓×	ļ	L		$\perp \perp$	\bot	X X
14		S22	22'	22'	1/26/2012	2:00 PM		1	1		\vdash	_	4		_	1	S	X	_		_	_	\dashv	+	X	_	\vdash	\square	_		<u>X</u>
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Special I	nstructions:	TPH: 8015B, I	BTEX: 8	021B.	Please show	w BTEX resu	lts	as	mg	/kg.	Th	anl	(yo	u.						VOC	s:F	ee o	f, He	nmen ers Int eadsp	ace?				3	N	
Relinquish	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Date Time Received by .												اار	Date	1/1/2	Tim	е	Labe	is o lody	i cor seal	ntair s on	ner(s) i cont	ainer	(s)		进业人	Y) ***	N N		
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Relinquist	веа ру.	Date Time Received by ELOT: D										Date		.Tim		Tem	pera	ture		on Re				10		<u></u>	y				



December 19, 2011

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: DEETER ADV #1

Enclosed are the results of analyses for samples received by the laboratory on 12/15/11 13:20.

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. 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

(505) 748-4635 Fax To:

Received:

12/15/2011

Sampling Date:

12/12/2011

Reported:

12/19/2011

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

30-015-25638

Project Number:

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: MB-2 8' (H102699-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.20	0.500	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	22.2	0.500	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	23.8	0.500	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	134	1.50	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate 4-Bromofluorobenzene (PIL	165	% 64 4-13	4						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2290	100	12/17/2011	ND	193	96.4	200	4.86	
DRO >C10-C28	5820	100	12/17/2011	ND	189	94.7	200	1.39	
Surrogate: 1-Chlorooctane	813	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	170	% 57 6-15	8						

*=Accredited Analyte Cardinal Laboratories

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 dient for analyses. All claims, including those for negligence and any other cause whatspeer shall be deemed waved unless made in writing and received by Cardinala within thirty (30) days after completion of the applicable service. In no event shall Cardinal be label 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.



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

Fax To: (505) 748-4635

Received:

12/15/2011

Sampling Date:

12/12/2011

Reported:

12/19/2011

Sampling Type:

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: MB-4 10' (H102699-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.05	0.500	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	44.9	0.500	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	53.6	0.500	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	82.8	1.50	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate 4-Bromofluorobenzene (PIL	134	% 64 4-13	4						
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2510	100	12/17/2011	ND	193	96.4	200	4.86	
DRO >C10-C28	5200 100		12/17/2011	ND	189	94.7	200	1.39	
Surrogate 1-Chlorooctane	142	% 55 5-15	·4						
Surrogate: 1-Chlorooctadecane	210	% 57 6-15	8						

*=Accredited Analyte Cardinal Laboratories

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 withing 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 externiptions, 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. Keene, Lab Director/Quality Manager



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

Fax To:

(505) 748-4635

Received:

12/15/2011

Sampling Date:

12/12/2011

Reported:

12/19/2011

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: MB-6 12' (H102699-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.09	0.500	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	29.3	0.500	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	43.5	0.500	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	79.6	1.50	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate 4-Bromofluorobenzene (PIL	148 %	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	1190	o 100 12/17/2011		ND	193	96.4	200	4.86	
DRO >C10-C28	4300	100	12/17/2011	ND	189	94.7	200	1.39	
Surrogate 1-Chlorooctane	128 %	6 55 5-15	4						
Surrogate 1-Chlorooctadecane	139 %	6 57 6-15	8						

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Celeg Di Keene



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

Fax To:

(505) 748-4635

Received:

12/15/2011

Sampling Date:

12/12/2011

Reported:

12/19/2011

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: SB-2 8' (H102699-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS		···			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	22.3	0.500	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	122	0.500	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	107	0.500	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	172	1.50	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	173 %	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	3410	100	12/17/2011	ND	193	96.4	200	4.86	
DRO >C10-C28	7450	100	12/17/2011	ND	189	94.7	200	1.39	
Surrogate 1-Chlorooctane	164 %	6 55 5-15	4						
Surrogate 1-Chlorooctadecane	166 %	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:

12/15/2011

Sampling Date:

12/12/2011

Reported:

Sampling Type:

Soil

Project Name:

12/19/2011

Sampling Condition:

Cool & Intact

DEETER ADV #1

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: SB-4 10' (H102699-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS				_	S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.06	0.500	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	50.4	0.500	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	53.5	0.500	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	101 1.50		12/18/2011	ND	6.16	103	6.00	0.930	
rogate: 4-Bromofluorohenzene (PIL 1		% 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	2320	100	12/17/2011	ND	193	96.4	200	4.86	
DRO >C10-C28	4990	100	12/17/2011	ND	189	94.7	200	1.39	
Surrogate 1-Chlorooctane	133 % 55 5-15		4						
Surrogate: 1-Chlorooctadecane	137	% 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:

12/15/2011

Sampling Date:

12/12/2011

Reported:

12/19/2011

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: SB-5 11' (H102699-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.02	0.500	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	15.9	0.500	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	27.7	0.500	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	48.6	1.50	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	152 % 64 4-13		4						
TPH 8015M	mg,	/kg	Analyze	d By: MS	- 				S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1250	100	12/17/2011	ND	193	96.4	200	4.86	
DRO >C10-C28	4100 100 12/17		12/17/2011	ND	189	94.7	200	1.39	
Surrogate 1-Chlorooctane	121	% 55 5-15	·-4						
Surrogate 1-Chlorooctadecane	160	% 57 6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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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 SM4500CI-8 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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Celeg & Keene

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Company Name Vates Petroleum Corporation Project 4: 30-015-25638		Project Manager: An	Manager: Amber Cannon										Project Name: Deeter AD\								IV #1				·							
City/State/Zip: Artesia, NM 88210		Company Name Ya	ites Petroleum Corporation	on													Project #: 30-015-25638															
Telephone No. 575-748-4111		Company Address: 10	5 South 4th Street													 	_	F	'roje	ct L	oc: _	27-18S-26E, Eddy County								:		
Sampler Signature: Chin Chin Chin Chin Chin Chin Chin Chin		City/State/Zip: Ar	tesia, NM 88210										_			PC	#:	#:1032020)							
Analyze Fox: TOTAL TOTAL		Telephone No: 57	5-748-4111			Fax No:		575	5-74	8-41	31					Report Format:				: [X Standard TR					TRR	:RP NPDE			DES		
Separate		Sampler Signature: Cimbon Cambon							ac	an	nor	<u>1@</u>	<u>)yat</u>	<u>esp</u>	etr	oleı	ım.e	m.com														
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MB-2																															2 hrs	
MB-2	ORDER	! #: 		τ		r					Presc	rvati	on & #	of Co	ntaine	rs	М	atrıx	l ig				.e.			0				Ì	48, 7:	
MB-2	LAB # (lab use only)	11102699 FIELD	CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	loe	HNO ₃	HCI ·	H ₂ SO ₄	NaOH Na S.O.	None	Other (Specify)	DW≂Drinking Water SL≖Sludge		418 1 8015M	TX 1005 TX	Cations'(Ca, Mg, Ne, K)	Anions (Cl. SO4, Alkalinity)	Cd Cr Po Hg		Semivofatiles	17037	RCI	N O.N	Chloriaes e A D		RUSH TAT (Pre-Schedule) 24,	Standard TAT
MB-4	1	. MB	-2	8'	8'	12/12/2011	11:20 AM			Х				1				S	1							\neg	T				П	- 1
3	2	МВ	-4	10'	10'	12/12/2011	11:57 AM		1	х		-			T			s	X				1.			X		7	\mathbf{x}	1	П	
SB-2 8' 8' 12/12/2011 12:25 PM 1		МВ	-6	12'	12'	12/12/2011	12:12 PM	Γ	1	ж		•			1			s	X		\Box	T				X		\Box	x	T	П	X
SB-5 11' 11' 12/12/2011 1:10 PM 1 X S X X X X X X X X X X X X X X X X X	L)	·SB	-2	8'	8'	12/12/2011	12:25 PM		1	Х	,							s	Х							Х			Χ			X
BTEX: 8021B & Chlorides. Please put chlorides on separate report. Please show BTEX results as mg/kg. Thank you. Relinquished by: Date Time Received by ELOT: Date Time Time	5	SB	-4	10'	10'	12/12/2011	12:47 PM		1	х								S	Х							Х			x			X
BTEX results as mg/kg. Thank you. Sample Containers Intact? VOCs Free of Headspace? N Labels on container(s) N Custody seals on container(s) N Custody seals on conteiner(s) Date Time Received by: Date Time Received by: Date Time Temperature Upon Receipt.	6	SB	-5	11'	11'	12/12/2011	1:10 PM		1	×	Ŀ				_ _	_	<u> </u>	S_	X	_	_	_		<u> </u>		X			<u>x</u>	1		X
BTEX results as mg/kg. Thank you. Sample Containers Intact? VOCs Free of Headspace? N Labels on container(s) N Custody seals on container(s) N Custody seals on conteiner(s) Date Time Received by: Date Time Received by: Date Time Temperature Upon Receipt.					ļ				_	Ŀ				- -	+	+	-		├-		\dashv	-	-	-			+		+	\vdash	$\vdash \vdash$	_
BTEX results as mg/kg. Thank you. Sample Containers Intact? VOCs Free of Headspace? N Labels on container(s) N Custody seals on container(s) N Custody seals on conteiner(s) Date Time Received by: Date Time Received by: Date Time Temperature Upon Receipt.				-				_		-				- -	+	+	-		\vdash		+	-	+	+	, , _		\dashv	-	+	+	H	\dashv
BTEX results as mg/kg. Thank you. Sample Containers Intact? VOCs Free of Headspace? N Labels on container(s) N Custody seals on container(s) N Custody seals on conteiner(s) Date Time Received by: Date Time Received by: Date Time Temperature Upon Receipt.				<u>-</u>	<u> </u>									-	†	T	1				T	1				П		1	1	1	\Box	
Custody seals on cooler(s) Date Time Received by: Date Time Received by: Date Time Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep.? N by Counter? UPS DHL FedEx Lone Start Temperature Upon Receipt.	pecial I	nstructions:					Please put	chi	orio	les	on	se	para	te re	poi	rt. F	Pleas	se si	iów	•	Sam	ple C	onta	ners	Inta	ict?		 ,	Y			
Relinquished by. Date Time Received by ELOT: Date Time Temperature Upon Receipt.	australia man la				AM me	Received by:		1	9-6	۷			-		1	2/1 D	ち/// atě	1	:20 Tim	<u>9</u>	Cust Çust Sam t	lody s lody s ple H by Sa	eals eals land mple	on o on c Deliv /Clie	ontai oolei ered nt Re	r(s) i ep. ?	,	F	(Y	}	N N N	ar
	Relinquist	linquished by. Date Time Received by ELOT:								D					Tem	perat	ure (Jpon	Rec	eipt.		000										



December 19, 2011

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: DEETER ADV #1

Enclosed are the results of analyses for samples received by the laboratory on 12/15/11 13:20.

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 accredited 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 & 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



Analytical Results For:

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

Fax To:

(505) 748-4635

Received:

12/15/2011

Sampling Date:

12/12/2011

Reported:

12/19/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Name:

DEETER ADV #1

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

Analyte

Analyte

Analyte

Analyte

27-18S-26E, EDDY COUNTY

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Sample ID: MB-2 8' (H102699-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

BS

% Recovery

True Value OC

RPD

Result

Analyzed By: HM

104

400

Oualifier

Chloride

16.0

Result

<16.0

16.0 12/16/2011 ND

Method Blank

416

3 77

Sample ID: MB-4 10' (H102699-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed

12/16/2011

Analyzed

Method Blank ND

BS 416 % Recovery

True Value QC

RPD

Qualifier

Chloride

Sample ID: MB-6 12' (H102699-03)

Analyzed By: HM

104

400

3.77

Chloride, SM4500Cl-B

Result

208

Result

144

12/16/2011

Analyzed

Analyzed

12/16/2011

Method Blank

ND

Method Blank

ND

BS

416

BS

416

% Recovery

104

% Recovery

104

True Value QC

RPD

Qualifier

Chloride

Chloride

Sample ID: SB-2 8' (H102699-04)

Chloride	SM4500CI-R	

mg/kg

Analyzed By: HM

400

3.77

RPD

3.77

True Value QC

400

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Celey D. Kuna

Page 2 of 5



Analytical Results For:

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

Fax To: (505) 748-4635

Received:

12/15/2011

Sampling Date:

12/12/2011

Reported:

12/19/2011

Sampling Type:

Soil

Project Name:

DEETER ADV #1

Sampling Condition:

Cool & Intact

Project Number:

30-015-25638

Sample Received By:

Jodi Henson

Project Location:

27-18S-26E, EDDY COUNTY

Sample ID: SB-4 10' (H102699-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/16/2011	ND	416	104	400	3.77	
Sample ID: SB-5 11' (H1	102699-06)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/16/2011	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 whatour shall be deemed waved unless made in wrong and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be label for inodental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones

Celey & 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 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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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	on				,											ı	Proj	ect	Nan	ie:_					Dec	eter	AD)V #	<u>‡1</u>			
	Company Name Yales Petrole	eum Corporatio	on			····													Pro	ject	#:					30-	-01	5-25	563	8			
	Company Address: 105 South 4	th Street					· · · · · ·											Pr	oje	ct Lo)G: -			27	-18	<u>S-2</u>	26E	, Ec	idy	Co	unty		
	City/State/Zip: Artesia, NM	88210																		PO	#:						103	3202	20				
	Telephone No: 575-748-411	1				Fax No:		575	5-74	8-41	31.						Rep	ort	Fori	nat:	:[x	Stan	dare	i			TRR	P	[Пν	IPDE	s .
	Sampler Signature:	er Ca	γ _ν ν	<u>_6Y)</u>	· · · · · · · · · · · · · · · · · · ·	e-mail:		<u>ac</u>	an	noı	ı@)ýa	tes	pet	role	eun	11.CO	m_	-		1												
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lab use d	onty)																	ł				TOT		\dashv		\dashv		- 1	-			ş	
ORDER	R#:									Prese	:rvati	on & i	# of C	ontai	ners	1	Matr	ix			Ť				_	十	_	-	İ		İ	8, 72	1
LAB # (lab use only)	H102699 FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total ♯ of Containers	a01	HNO	HCi	H₂SO₄	. HOeN	. Na ₂ S ₂ O ₃	None	Other (specify)		ni-Potable	ŝΙ	TPH: TX 1005 TX 1006	Cations (Ca. Mg, Na, K)	Anions (Cl. SO4, Alkalınıty)		Metals: As Ag Ba Ca Cr Pb Hg Se	Volatiles	igh	ここ、ここ:/5030 or BTEX 8260	RCI	N.O.P.M	Chloriaes	SAR	RUSH TAT (Pre-Schedule) 24, 4	Standard TAT
	MB-2		8'	8'	12/12/2011	11:20 AM	-	1	X						\top	1	s	\neg	x							-	X		- 1	X		1	X
Ż	MB-4		10'	10'	12/12/2011	11:57 AM		1	X	1-	-			1	\top	1	s		х		. (7	1	7		x	-	.,	X	7		x
3	MB-6		12'	12'	12/12/2011	12:12 PM		1	х						1	1	S		x			7		1	7		x	\neg	-	X			X
L)	SB-2		8'	8'	12/12/2011	12:25 PM		1	Х		-					1	S		x		1				T		x			x			X
5	SB-4		10'	10'	12/12/2011	12:47 PM .		1	Х								S		х		'						x			Х			Х
6	SB-5		11'	11'	12/12/2011	1:10 PM		1	Х								S.		Х								X			X			X
									_	_			_	4	_	1			_			_		_	_	_	_	_	_	4	_	_	
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ipecial I		: 8015B, BT X results as			& Chlorides. nank you.	Please put	chle	orid	les	on.	sel	ll para	ite i	l	ort.	Ple	ase	sho	l		Sam	ple	ory Con	taine	er,s , li	ntac	t?		<u> </u>	<u> </u>		N N	_
elinquisi	iber Canan	Date Date	8'UB	me ,	Received by: Received by:	Men	<u>Le</u>	シャ	<u>/</u>	SE					12/	Date Date	///	<i>]</i> :	LE ime	>	Labe Cusi Cusi Sam	els o lody tody iple by S	n co sea sea Han amp	intai ls or ls or d De ler/C	ner(s n cor n cor n cor eliver	s) ntair oler(red	ner(: (s) p. ?	s) DHL		() () () () () () () () () () () () () (DOOD X	N N N N one S	lar
Relinquist	nea by:	Date	"	nne	Received by EL() i										vale	;	•	ııne		Tem	pera	ațure 1	Ι.			•	_[<u>n</u>	.Pa	ge:	5.of	5
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Analytical Report 427323

for Yates Petroleum Corporation

Project Manager: Amanda Trujillo

Deeter AV # 1

21-SEP-11 -

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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Xenco-Atlanta (EPA Lab Code: GA00046):

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Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



21-SEP-11

Project Manager: Amanda Trujillo Yates Petroleum Corporation

105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 427323

Deeter AV # 1
Project Address:

Amanda Trujillo: --

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 427323. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 427323 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Sample Cross Reference 427323



Yates Petroleum Corporation, Artesia, NM

Deeter AV # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample 1 (1')	S	09-07-11 13:00	1 - 1 ft	427323-001
Sample 2 (4')	S	09-07-11 13:00	4 - 4 ft	427323-002





Client Name: Yates Petroleum Corporation

Project Name: Deeter AV # 1



Project ID:

Work Order Number: 427323

Report Date: 21-SEP-11 Date Received: 09/09/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-869713 BTEX by EPA 8021B

SW8021BM

Batch 869713, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the

Matrix Spike and Matrix Spike Duplicate. Samples affected are: 427323-001, -002.

The Laboratory Control Sample for Toluene, Ethylbenzene, m_p-Xylenes, o-Xylene is within

laboratory Control Limits

SW8021BM

Batch 869713, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 427323-002,427323-001.



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Deeter AV # 1



Project ID:

Work Order Number: 427323

Report Date: 21-SEP-11

Date Received: 09/09/2011

Batch: LBA-870524 TPH By SW8015B Mod

SW8015B NM

Batch 870524, 1-Chlorooctane, o-Terphenyl recovered above QC limits. Matrix interferences is

suspected; data confirmed by re-analysis

Samples affected are: 427323-002,427323-001.

SW8015B_NM

Batch 870524, C10-C28 Diesel Range Hydrocarbons recovered above QC limits in the Matrix

Samples affected are: 427323-001, -002.

The Laboratory Control Sample for C10-C28 Diesel Range Hydrocarbons is within laboratory

Control Limits

SW8015B_NM

Batch 870524, C10-C28 Diesel Range Hydrocarbons RPD was outside QC limits.

Samples affected are: 427323-001, -002



Certificate of Analysis Summary 427323

Yates Petroleum Corporation, Artesia, NM

Project Name: Deeter AV # 1

Contact: Amanda Trujillo

Project Location:

Project Id:



Date Received in Lab: Fri Sep-09-11 10:00 am

Report Date: 21-SEP-11

oject Location:						Project Manager: Brent Barron II
	Lab Id:	427323-0	001	427323-0	02	
Analysis Paguastad	Field Id:	Sample 1	(1')	Sample 2 ((4')	
Analysis Requested	Depth:	1-1 ft		· 4-4 ft		
	Matrix:	SOIL		SOIL		
į.	Sampled:	Sep-07-11	13.00	Sep-07-11 1	3:00	
BTEX by EPA 8021B	Extracted:	Sep-09-11	17.00	Sep-09-11 1	7 00	
	Analyzed:	Sep-10-11	08 34	Sep-10-11 0	9:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	
Benzene		21.3	0 531	9.55	0 523	
Toluene		162	1.06	106	1.05	
Ethylbenzene		179	0.531	145	0 523	3
m_p-Xylenes		206	1.06	171	1.05	
o-Xylene		75.6	0 531	64 7	0.523	3
Total Xylenes		282	0 531	236	0 523	
Total BTEX		644	0.531	496	0.523	3
Percent Moisture	Extracted:					
	Analyzed:	Sep-09-11	15 12	Sep-09-11 I	5 12	
	Units/RL:	%	RL	%	RL	
Percent Moisture		5.86	1 00	4.72	1.00	
TPH By SW8015B Mod	Extracted:	Sep-12-11	13.05	Sep-12-11 1	3.05	
	Analyzed:	Sep-20-11	16:14	Sep-20-11 1	6:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	
C6-C10 Gasoline Range Hydrocarbons		7760	79.7	5740	78.4	
C10-C28 Diesel Range Hydrocarbons		14100	79 7	12000	78.4	
Total TPH		21900	79.7	17700	78.4	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our hability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Odessa Laboratory Manager

Analytical Report 427324

for Yates Petroleum Corporation

Project Manager: Amanda Trujillo

Deeter AV # 1

-- 2-1-SEP-11 --- -- -

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



21-SEP-11

Project Manager: Amanda Trujillo Yates Petroleum Corporation

105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 427324

Deeter AV # 1
Project Address:

Amanda-Trujillo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 427324. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 427324 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Yates Petroleum Corporation, Artesia, NM

Deeter AV # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample 1 (1')	S	09-07-11 13:00	1 - 1 ft	427324-001
Sample 2 (4')	S	09-07-11 13:00	4 - 4 ft	427324-002

CASE NAR



Client Name: Yates Petroleum Corporation

Project Name: Deeter AV # 1



Project ID: Work Order Number: 427324	Report Date: 21-SEP-11 Date Received: 09/09/2011
Sample receipt non conformances and con	nments:
None	
Sample receipt non conformances and con	nments per sample:
None	



Project Location:

Project Id:

Certificate of Analysis Summary 427324

Yates Petroleum Corporation, Artesia, NM

Project Name: Deeter AV #1

Contact: Amanda Trujillo

Date Received in Lab: Fri Sep-09-11 10:00 am

Report Date: 21-SEP-11

Project Manager: Brent Barron II

						 Troject Wallagert	
	Lab Id:	427324-0	01	427324-0	02		
Analysis Requested	Field Id:	Sample 1	(1')	Sample 2	(4')		
Anaiysis Requesieu	Depth:	1-1 ft		4-4 ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Sep-07-11 1	3.00	Sep-07-11 1	3:00		
Anions by E300	Extracted:						
	Analyzed:	Sep-11-11	9.03	Sep-11-11 1	9:03		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		63.3	4 46	17.5	441		
Percent Moisture	Extracted:						
	Analyzed:	Sep-09-11	5.12	Sep-09-11 1	5:12		
	Units/RL:	%	RL	%	RL		
Percent Moisture		5.86	1 00	4.72	1.00		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting OC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit

MQL Method Quantitation Limit

LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + Outside XENCO's scope of NELAC Accreditation.

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BS / BSD Recoveries



Project Name: Deeter AV # 1

Work Order #: 427324

Analyst: BRB

Date Prepared: 09/11/2011

Project ID:

Date Analyzed: 09/11/2011

Lab Batch ID: 869667

Sample: 869667-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	PIKE DUPI	ICATE .	RECOV	ERY STUD	Υ	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	{C}	[D]	[E]	Result [F]	[G]	j 1			
Chloride	<0 840	20.0	21 9	110	20.0	21.9	110	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes





Project Name: Deeter AV # 1



Work Order #: 427324

Lab Batch #: 869667

QC- Sample ID: 427256-001 S

Date Prepared: 09/11/2011

Project ID:

Date Analyzed: 09/11/2011

Analyst: BRB

Batch #:

Matrix: Soil

Reporting Unit	ts: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY										
	Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
	Analytes	[]	[2]									
Chloride		19100	4830	24200	106	75-125						

Lab Batch #: 869667

Date Analyzed: 09/11/2011

Date Prepared: 09/11/2011

Analyst: BRB

QC- Sample ID: 427304-005 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATRIX	MATRIX / MATRIX SPIKE RECOVERY STUDY										
Inorganic Anions by EPA 300	Result Ad	Spiked Samplike Result	%R [D]	Control Limits %R	Flag							
Analytes		BJ										
Chloride	7.78 1	01 99 8	91	75-125								

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Deeter AV # 1

Work Order #: 427324

Lab Batch #: 869667

Project ID:

Date Prepared: 09/11/2011

Analyst: BRB

QC- Sample ID: 427256-001 D

Date Analyzed: 09/11/2011 19:03

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	SAMPLE/SAMPLE DUPLICATE RECOVERY										
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag						
Analyte		(d)									
Chloride	19100	18800	2	20							

Lab Batch #: 869627

Date Analyzed: 09/09/2011 11:15

Date Prepared: 09/09/2011

Analyst: BRB

QC- Sample ID: 427302-002 D

Batch #: 1

Matrix: Soil

Reporting Units: %

Percent Moisture

s: %	SAMPLE / SAMPLE DUPLICATE RECOVERY							
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag			
Analyte		[B]]			
	1 57	1.41	11	20				

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

Phone: 432-563-1800 Fax: 432-563-1713

Project Manager: Deeter AV #1 Amanda Truiillo Project Name: Company Name Yates Petroleum Corporation Project #: Project Loc: Company Address: 105 South 4th Street City/State/Zip: Artesia, NM 88210 PO#: 12693 Telephone No: X Standard TRRP NPDES 575-748-4310 Fax No: 575-748-4585 Report Format: Sampler Signature: e-mail: atrujillo@yatespetroleum.com Analyze For. (lab use only) TCLP ORDER #: 427323/427524 TOTAL Preservation & # of Containers Matrix Metals As Ag Ba Cd Cr Pb Hg Se BTEX 8021B/5030 or BTEX RUSH TAT (Pre-Schedule) Anions (Cl, SO4, Alkalinity) only) Cations (Ca, Mg, Na, K) Beginning Depth Sampled Time Sampled Ending Depth Standard TAT # (lab N.O.R.M. Na₂S₂O₃ Date Š Š 豆 FIELD CODE 01 9/7/2011 1:00 PM Sample 1 (1') S Sample 2 (4') 4' 9/7/2011 1:00 PM S Special Instructions: Please put Chloride Analysis in separate report. Thank you :) **Laboratory Comments:** Sample Containers Intact? VOCs Free of Headspace? A) Date Labels on container(s) Date Time Received by: Custody seals on container(s) 09/08/11 3 31 PM Custody seals on cooler(s) 图 Relinquished by Date Time Received by Date Sample Hand Delivered by Sampler/Client Rep ? by Courier? UPS DHL Received by ELOT: Date Relinquished by. Date Time Indrea Elam Temperature Upon Receipt. 19-9-11 10:00



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010

Prelogin / Nonconformance Report - Sample Log-In

client: Yates R	trolcum				•		
Date/Time: 97	11 10:00						
Lab ID#: 42732	3 /42730	14					
Initials:							
	S	ample Receipt C	hecki	ist			
1. Samples on ice?					Water	No	
2. Shipping container in good condition?				(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?				Yes	No	(NA)	
4. Chain of Custody present?				Yes	No		
5. Sample instructions complete on chain of custody?				(Yes)	No		
6. Any missing / extra samples?				Yes	(No)		
7. Chain of custody signed when relinquished / received?				(Yes)	No		
8. Chain of custody agrees with sample label(s)?				(Yes)	No		
9. Container labels legible and intact?				Yes	No		
10. Sample matrix / properties agree with chain of custody?				(Yes)	No		
11. Samples in proper container / bottle?				(Yes)	No		
12. Samples properly preserved?					No	N/A	
13. Sample container intact?				Yes	No		
14. Sufficient sample amount for indicated test(s)?				(Yes)	No	·	
15. All samples received within sufficient hold time?				Yes	No		
16. Subcontract of sample(s)?				Yes	No	(NA)	
17. VOC sample have zero head space?					No	N/A	
18. Cooler 1 No.	8. Cooler 1 No. Cooler 2 No. Cooler 3 No.			Cooler 4 N	0	Cooler 5 No.	
1bs 3 6 °c	. lbs °C	lbs	°C	lbs	°c	lbs	°C
Contact:		conformance Do			Date/Time:		
Corrective Action Taken	:						
						 	· · · · · · · · · · · · · · · · · · ·

Check all that apply:

Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis