Spill 1a

First Sampling

Analytical Report- 427255 & 427256	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #4	9/7/2011	4'	5.69	346	2240	2590	34300

Second Sampling

Analytical Report- H102403	Sample Date	Depth	BTEX	GRO	DRO		Chlorides
Sample #4	11/4/2011	6'	0.060	46.6	1340	1386.6	11700

Third Sampling

Analytical Report- H102403	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #4	11/22/2011	7'	-	-	-	-	5680
Sample #4	11/22/2011	8'	-	-	-	-	2840
Sample #4	11/22/2011	9'	-	-	_	-	3280

Fourth Sampling

Analytical Report- H102703	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #4	12/12/201,1	10'	-	-	-	-	6000
Sample #4	12/12/201	11'	-	-	-	-	5280
Sample #4	12/12/2011	12'	-	-	_	-	576
Sample #4	12/12/2011	13'	-	-	-	-	336
Sample #4	12/12/2011	14'	•	-	-	_	624
Sample #4	12/12/2011	15'	-	-	_	-	192

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 130', per NMOSE).

All results are ppm.Chlorides for documentation. S# - Sample Points

Released: 15 B/O; Recovered: 8 B/O. Release Date: 8/26/2011

DExcavated to 7'

Excavation Depth



December 17, 2011

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: RODKE 'AOY' #1

Enclosed are the results of analyses for samples received by the laboratory on 12/15/11 13:30.

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.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Yates Energy Petroleum Corp JEREMY HAASS 105 S'4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 12/15/2011

12/17/2011

Project Name: Project Number: RODKE 'AOY' #1 30-015-28404

Project Location:

EDDY

Sampling Date:

12/12/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #4 10' (H102703-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte

Result

6000

Reporting Limit

16.0

Reporting Limit

Analyzed 12/17/2011 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

0.00

Qualifier

Sample ID: SAMPLE #4 11' (H102703-02)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: HM

Analyzed

Method Blank

RPD

0.00

Chloride

Chloride

Result 5280

16.0 12/17/2011 ND

BS 432 % Recovery 108

True Value QC 400

Qualifier

Sample ID: SAMPLE #4 12' (H102703-03)

Chloride, SM4500Cl-B

Analyzed By: HM

Method Blank

BS

% Recovery

Chloride

Result 576

Reporting Limit 16.0

True Value QC

RPD

Qualifier

Result

336

Chloride, SM4500Cl-B

108

400

Sample ID: SAMPLE #4 13' (H102703-04)

Analyzed 12/17/2011

ND

432

Chloride

mg/kg

Analyzed By: HM

16.0

0.00

Analyte

Reporting Limit

Analyzed 12/17/2011 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 0.00 Qualifier

Cardinal Laboratories

*=Accredited Analyte PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remetly for any 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. 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Celey D. Keine

Page 2 of 5



Analytical Results For:

Yates Energy Petroleum Corp JEREMY HAASS 105 S. 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 12/15/2011

12/17/2011

Project Name: Project Number: RODKE 'AOY' #1 30-015-28404

Project Location:

EDDY

Sampling Date:

12/12/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SAMPLE #4 14' (H102703-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Analyte

Result

Reporting Limit Analyzed

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

624

Result

192

16.0

Reporting Limit

16.0

12/17/2011

Method Blank ND

432

108

400

0.00

Sample ID: SAMPLE #4 15' (H102703-06)

Chloride, SM4500Cl-B

Analyzed By: HM

Analyzed

12/17/2011

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

within thirty (30) days after completion of the applicable service. client, its subsidiaries, affiliates or success sors arising out of or related to the performance of the services her

Celey D. Keene, Lab Director/Quality Manager

Celeg & Keens

Page 3 of 5



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keine



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-247

	Project Manager:	Jeremy Haass					<u> </u>			·					·		Proj	ect N	lam	e:				Rodl	ke '/	OY	<u>'#1</u>			
	Comp: (505) 393-2326	Yates Petroleur	m Corporatio	n														Proj	ect	#: <u>3</u> (0-01	5-28	3404		•					;- ` -; ;
	Company Address:	105 South 4th	Street		· 	· · · · · · · · · · · · · · · · · · ·									<u> </u>		Pr	ojec	Lo	c:	· .				Ede	dy				i
	City/State/Zip:	Artesia, NM 8	8210		· · · · ·		·											•.	PO	#: <u>10</u>	3-26	36			· .					•
	Telephone No:	575-748-4311		·			Fax No:	_								Re	port	Forir	at:	×	Sta	ındaı	d.	. [Тг	KIRI?			NPDE	s
	Sampler Signature:	2	17.5	\leq	>		e-mail:	į	haa	ass(<u>@</u> y	ates	spe	trole	um	.cor	n ,													·
(lab use	only)	· · · · · · · · · · · · · · · · · · ·	<u>, </u>										-						·		TCLP:	Ar	nalyze	For		T	П		- ,	, .
ORDEF	<u>R.#:</u>			,	,				_[Pres	erva	tion &	# of C	ontaine	rs	Ma	trix	<u></u>	7	T	OTAL:		\dashv	1	1				48, 72 hrs	
LAB # (lab use only)	H102703 FIEL	_D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	' ا قِ ا	Total #. of Containers	HNO ₃	HCI	H ₂ SO,	NaOH	Na ₂ S ₂ O ₃ . None	Other (Specify)	DW=Drinking Water SL=Sludge	otable S	418.1 8015M	cont x	Cations (Ca. Mg. Na, K) Anions (Cl. SO4 Alkalinity)		Metais: As Ag Ba Cd Cr Po Hg Se	Volatiles	Semivolatiles	5	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48.	rd TAT
1	Sample #4	:		10'	10'	12/12/2011	10:00 AM		1							,	3										X			×
. 2	Sample #4			11'	11'	12/12/2011	10:15 AM		1		1						3.										х			X
3	Sample #4			12'	12'	12/12/2011	10:30 AM		1		1					- 5	3			\neg					1		X			X
ų	Sample #4			13'	13'	12/12/2011	10:45 AM		1							†——	3			T	1.				\top		X			X
رايع	Sample #4			14'	14'	12/12/2011	11:00 AM		1							5	3								1	T	X			x
6.5.	Sample #4			15'	15'	12/12/2011	11:15 AM		1						1				1		1	-			1	T	$ _{X} $			$ \mathbf{x} $
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