November 16, 2012

Mr. Mike Bratcher Oil Conservation Division Artesia, NM

Re:

Nix 'GP' Battery 30-015-21910

Section 22, T18S-R26E Eddy County, New Mexico

Dear Mr. Bratcher:

Yates Petroleum Corp. would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated October 4, 2012.

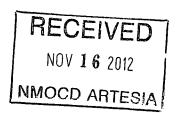
If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of November, 30, 2012.

If you have any questions call me at 575-748-4311

Thank you.

Yates Petroleum Corporation

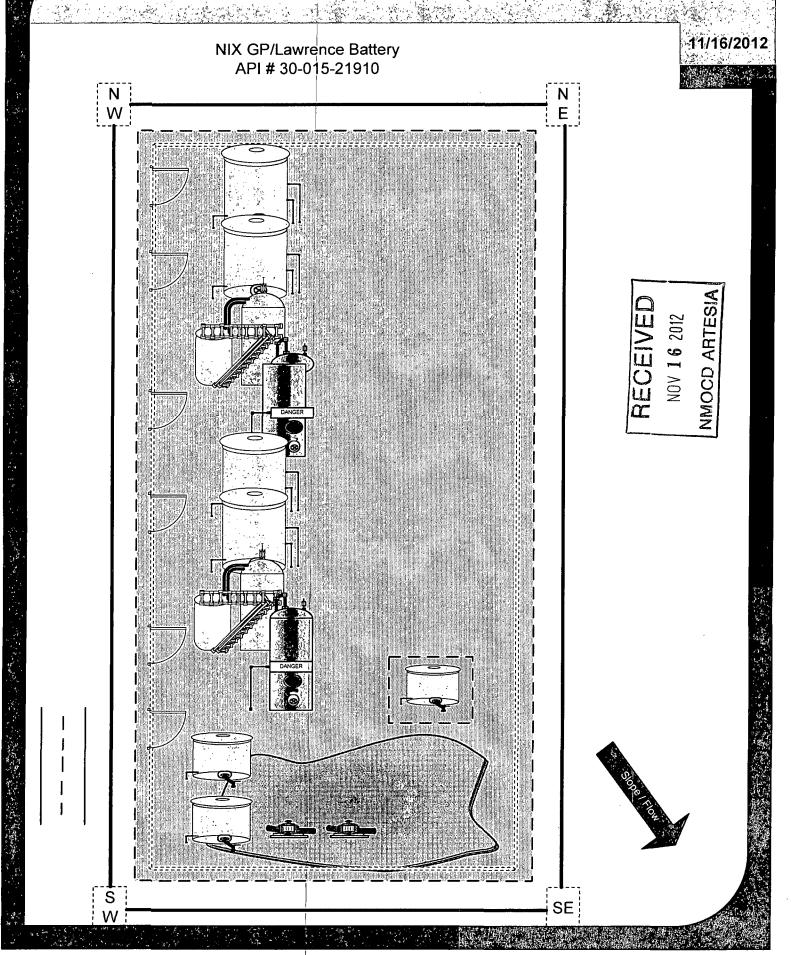
Jeremy Haass Environmental Regulatory Agent



Enclosure(s):

Diagram of Location Summary of Samples Analytical Report H202544 Analytical Report H202664 Analytical Report H202734

# YATES PETROLEUM CORPORATION



Yates Petroleum Corporation
Nix 'GP' Battery Work Plan
Section 22, T18S-R26E
Eddy County, New Mexico
November 16, 2012

#### I. Location

Go south on 285 turn East (left) on Dayton Rd. then go approximately 1.4 miles turn North (left) on lease road then immediately turn East (right) and follow road to location.

#### II. Background

On September 22, 2012 a release occurred of 450 B/PW of which 400 B/PW was recovered. Yates submitted a C-141 on October 4, 2012 to the NMOCD District II office. The total affected area was 60 yards x 30 yards. Initial delineation samples were taken (10/17/11, 10/31/12, and 11/7/12) and sent to an NMOCD approved laboratory (results enclosed).

## III. Surface and Ground Water

Area surface geology is Cenozoic. The nearest Depth to Groundwater record listed on the New Mexico Office of the State Engineer (Section 22, T18S-R26E) shows depth of groundwater to be approximately 72 feet making the site ranking for this site a Ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is Ten (10) based on the as following:

Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

#### IV. Soils

The area consists of soils that are caliche and interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

## V. Scope of Work

Upon approval of this work plan and based on the enclosed analytical results, Yates Petroleum Corp. will have a contractor backfill 7' of clean soil in Sample Areas 1 and 2 (S1, S2). Sample Area 3 (S3) will have 1' of clean soil backfilled, while Sample Area 4 will have 3' of clean soil backfilled. Impacted soils have already been taken to an NMOCD approved facility for disposal S1=7', S2=7', S3=1', S4=3'. After backfill is completed a Coring Unit will be brought in to further delineate the impacted area for documentation purposes. Once all cleanup work is completed the battery will be lined to impede any movement of Chlorides and to protect against future releases. With the analytical results being within RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of Ten (10) Yates Petroleum Corporation will submit a C-141 Final Report, analytical results and request closure of the site.

Analytical Report- H202544 & 664 & 734	Sample Date	Depth	втех	GRO	DRO	TOTAL	Chlorides
<b>°S</b> 1 3'	10/17/2012	3'	.24	ND	ND	ND	13200
<sup>4</sup> S1 3	10/17/2012	5'	ND	ND	ND	ND	9800
<b>*31</b> 7*	10/17/2012	7'	ND	ND	ND	ND	6500
S1 10'	11/7/2012	10'	_	-	_	-	640
S1 12'	11/7/2012	12'	-			-	624
S1 14'	11/7/2012	14'		-	_	•	1180
S1 16'	11/7/2012 .	16'	-		-	-	9860
			· · · · · · · · · · · · · · · · · · ·				
*S2 3*	10/17/2012	3'	116.78	778	263	1041	6800
*82 5	10/17/2012	5'	ND	ND	ND	ND	2240
*82 7	10/17/2012	7'	ND	ND	ND	ND	6400
S2 10'	11/7/2012	10'	-	-	-	-	8400
S2 12'	11/7/2012	12'	-	-	-	<u>-</u>	10300
S2 14'	11/7/2012	14'	-		-	-	22600
S216'	11/7/2012	16'	-	-	-	-	10900
						<u> </u>	·
S3 3'	10/31/2012	3'	.236	ND	ND	ND	2080
S3 5'	10/31/2012	5'	ND	ND	ND	ND	6640
S3 7'	10/31/2012	7'	ND	ND	ND	ND	5760
S3 10'	11/7/2012	10'	-	-	-	-	6660
S3 12'	11/7/2012	12'	-		-	-	5520
S3 14'	11/7/2012	14'	-		-		7040
	•						
<b>S43</b>	10/31/2012	3'	ND	ND	2450	2450	192
S4 5'	10/31/2012	5'	ND	ND	ND	ND	112

Site Ranking is Zero (10). Depth to Ground Water <100' (approx. 72', per NMOSE).

7'

ND

ND

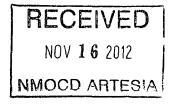
All results are ppm.Chlorides for documentation.

Released: 450 B/PW; Recovered: 400 B/PW. Release Date: 9/22/2012

10/31/2012



S4 7'



144

ND



November 12, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: NIX GP BATTERY



Enclosed are the results of analyses for samples received by the laboratory on 11/09/12 11:23.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celes 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 JEREMY HAASS 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/09/2012

Reported:

11/12/2012

Project Name:

NIX GP BATTERY

Project Number:

103-2636

Project Location:

**EDDY** 

Sampling Date:

11/07/2012

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

#### Sample ID: S 1 10' (H202734-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: S 1 12' (H2	02734-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: S 1 14' (H20	02734-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: S 1 16' (H20	02734-04)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	11/09/2012	ND	432	108	400	0.00	

#### Cardinal Laboratories -

\*=Accredited Analyte

PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All daims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Fax To:

(505) 748-4635

Received:

11/09/2012

Reported:

11/12/2012

Project Name:

**NIX GP BATTERY** 

Project Number:

103-2636

Sampling Date:

11/07/2012

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes) Jodi Henson

Sample Received By:

Project Location:

**EDDY** 

#### Sample ID: S 2 10' (H202734-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: S 2 12' (H20	2734-06)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: S 2 14' (H20	•								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22600	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: S 2 16' (H20	2734-08)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: S 3 10' (H20	2734-09)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	11/09/2012	ND	432	108	400	0.00	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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

Fax To:

(505) 748-4635

Received:

11/09/2012

Sampling Date:

11/07/2012

Reported:

11/12/2012

Sampling Type:

Soil

Project Name:

NIX GP BATTERY

Sampling Condition: Sample Received By:

\*\* (See Notes) Jodi Henson

Project Number: Project Location:

Analyte

103-2636

**EDDY** 

# Sample ID: S 3 12' (H202734-10)

CL1-14-	CM4EOOCI D	-	
Cnioriae,	SM4500CI-B		

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

Result

Reporting Limit Analyzed

Method Blank

% Recovery

108

True Value QC

Qualifier

Chloride

5520

16.0

11/09/2012

ND

432

BS

400

RPD

0.00

RPD

Oualifier

Sample ID: S 3 14' (H202734-11)

Chloride, SM4500CI-B Analyzed By: AP mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC

7040 16.0 11/09/2012 400 0.00 Chloride ND 432 108

Cardinal Laboratories

\*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim 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. Kuna

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7



ND

#### **Notes and Definitions**

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	3 1PC		BILL TO	ANALYSIS REQUEST
Project Manager	Jeremy Harss		P.O. #: 103-2636	
Address:			Company: 1PC	
city: Actesi	State: NM	zip:88210	Attn: Jecony Houss	
Phone #:	Fax #:		Address:	
Project #:	Project Owner:	Jeremy Hards	City:	
Project Name:	Nix GP Bottery		State: Zip:	
Project Location	: ESS 1		Phone #:	
Sampler Name:	Jucany Houss		Fax #:	
FOR LAB USE ONLY	' ' '	MATRIX	PRESERV. SAMPLING	$\lceil \sqrt{} \rceil $
Lab I.D.  1(10)(731)  2 3 4 5 7 6 7 10	Sample I.D.  \$1 10' \$1 12' \$1 14' \$1 16' \$2 10' \$2 12' \$2 14' \$2 16' \$3 10' \$3 10'	(G)RAB OR (C)OMP.  # CONTAINERS  # CONTAINERS  GROUNDWATER  WASTEWATER  C X X X X X SOIL  OIL SI UDGE	OTHER: OTHER: OTHER: OTHER: ACIDIBASE: OTHER: AMIL ATM	KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
PLEASE NOTE: Liability an	d Domages. Cordinal's kability and client's exclusive remedy for an			
actvice. In no event shall Co	g those for negligence and any other cause whatsoever shall be d trained be leable for incidental or consequental damages, including	vitrout lindtation, business interruptions	s, loss of use; or loss of profits incurred by client, its subsidiar	ites.
Relinquished By	ig out of or related to the nerformance of services hereunder by Cr.  Date:	Received By:	Phone Res	sult: ☐ Yes: ☐ No Add'I Phone #:
- J	Time:	MAZ A	Fax Result REMARKS	Yes O No Add'l Fax#:
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Sampler - UPS		Cool Intact Yes TY	(InItials)	



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	(575) 393-2326 FAX	(575) 393-2476	<u>`</u>																						
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Sampler Name:					·			F	ax#												ļ				
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November 02, 2012

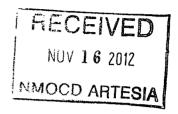
JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: NIX GP BATTERY



Enclosed are the results of analyses for samples received by the laboratory on 11/01/12 14:53.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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 & Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(505) 748-4635

Received:

11/01/2012

Reported:

11/02/2012

Project Name: Project Number: **NIX GP BATTERY** NONE GIVEN

Project Location:

**EDDY** 

Sampling Date:

10/31/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3 3' (H202664-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.083	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	0.153	0.050	11/02/2012	· ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	11/02/2012	ND	416	104	400	0.00	
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	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0	10.0	11/02/2012	ND	200	100	200	4.46	
Surrogate: 1-Chlorooctane	86.65	% 65.2-14	o						
Surrogate: 1-Chlorooctadecane	96.2 9	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed 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 use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Fax To:

(505) 748-4635

Received:

11/01/2012

Reported:

11/02/2012 NIX GP BATTERY

Project Name: Project Number:

NONE GIVEN

Project Location:

EDDY

Sampling Date:

10/31/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3 5' (H202664-02)

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	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	· ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	6 89.4-120	5						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	11/02/2012	ND	416	104	400	0.00	
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	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0	10.0	11/02/2012	ND	200	100	200	4.46	
Surrogate: 1-Chlorooctane	88.2 %	65.2-140	)	77.91.01.0					
Surrogate: 1-Chlorooctadecane	97.1 9	63.6-15-	#						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential clamages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, is subclidated, additionable and upon any of the above stated neasons 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. Keine



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

Fax To:

(505) 748-4635

Received:

11/01/2012

Reported:

11/02/2012

Project Name: Project Number: NIX GP BATTERY NONE GIVEN

Project Location:

**EDDY** 

Sampling Date:

10/31/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3 7' (H202664-03)

BTEX 8021B	mg/	'kg	Analyze	d By: AP			•		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.050	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	11/02/2012	ND	416	104	400	0.00	
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	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0	10.0	11/02/2012	ND	200	100	200	4.46	
Surrogate: 1-Chlorooctane	81.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.1	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

repose note: Easing and Danings. Cardinals aspainly and Cheris Secusive Fellows of the Applicable and Secusive Security Security

Celey D. Kura



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

Fax To:

(505) 748-4635

Received:

11/01/2012

Reported:

11/02/2012

Project Name: Project Number:

NIX GP BATTERY NONE GIVEN

Project Location:

EDDY

Sampling Date:

10/31/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S4 3' (H202664-04)

BTEX 8021B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6				-		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/02/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		,		**	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	2450	50.0	11/02/2012	ND	200	100	200	4.46	
Surrogate: 1-Chlorooctane	84.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	164 %	63.6-15	4						

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Celeg D. Keine



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

Fax To:

(505) 748-4635

Received:

11/01/2012

Reported:

11/02/2012

NONE GIVEN

Project Name: Project Number: NIX GP BATTERY

Project Location:

EDDY

Sampling Date:

10/31/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

J

Sample ID: S4 5' (H202664-05)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	, ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/02/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS	·		1 21 81		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0	10.0	11/02/2012	ND	200	100	200	4.46	
Surrogate: 1-Chlorooctane	93.1	% 65.2-140	)						
Surrogate: 1-Chlorooctadecane	103 9	% 63.6-15-	<i>‡</i>						

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\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 9



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

Fax To:

(505) 748-4635

Received:

11/01/2012

Reported:

11/02/2012

NONE GIVEN

Project Name: Project Number: NIX GP BATTERY

Project Location:

EDDY

Sampling Date:

10/31/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: S4 7' (H202664-06)

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	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/02/2012 ND		416	104	400	0.00	
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	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0 10.0		11/02/2012	ND	200	100	200	4.46	
Surrogate: 1-Chlorooctane	88.7	% 65.2-140	)						
Surrogate: 1-Chlorooctadecane	98.2	% 63.6-15-	<i>‡</i>						

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\*=Accredited Analyte

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Celey D. Keine



#### **Notes and Definitions**

S-06
The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND
Analyte NOT DETECTED at or above the reporting limit

RPD
Relative Percent Difference

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

\*\*\*
Insufficient time to reach temperature.

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

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

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Celeg D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	Company Name: YPC						BILL TO						ANALYSIS REQUEST									
Project Manage	Jereny H	1==55			· · · · · · · · · · · · · · · · · · ·			D.#: \0	<u> </u>	6	Г		T					•				
Address:		·			<del></del>		Col	mpany:	PC		1											
city: Artes:	<b>A</b>	State: NM	Zip: <	389	40		Att	n: Jeco	why fr	کد			1							1		
Phone #:		Fax #:					Add	dress:					:						· .			
Project #:		Project Owner	<u>S</u>	ی	VH-	-35	City	y: Acte	۵۱۸		$\rfloor$	1		1.								
Project Name:	Nix, GP' B	onttery		·	<i></i>		State: NM Zip: 88210				77	)		1.	1							
Project Location: [22]					Pho	one #:		: :	1 2	<u>d</u>	1				1: "			ļ				
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service. In no event shall C	ardinal be liable for incidental or cons	equental damages; including	without limi	tation, b	usiness into	rruptions; i	uss of	fuse, or loss of p	rofits incurred by	client, its subsidi	aries.					. :						
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October 24, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: NIX GP BATTERY



Enclosed are the results of analyses for samples received by the laboratory on 10/18/12 12:12.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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 D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(505) 748-4635

Received:

10/18/2012

Reported:

10/24/2012

NONE GIVEN

Project Name: Project Number: **NIX GP BATTERY** 

Project Location:

**EDDY** 

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: S1 3' (H202544-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.150	0.050	10/23/2012	ND	1.98	99.0	2.00	2.23	
Toluene*	0.090	0.050	10/23/2012	ND	2.15	108	2.00	2.85	
Ethylbenzene*	<0.050	0.050	10/23/2012	10/23/2012 ND		108	2.00	2.30	
Total Xylenes*	<0.150 0.150		10/23/2012	ND	6.54	109	6.00	2.75	
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	10/19/2012	ND	416	104	400	0.00	
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	<50.0	50.0	10/19/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<50.0	50.0	10/19/2012	ND	159	79.4	200	9.04	
Surrogate: 1-Chlorooctane	75.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	e: 1-Chlorooctadecane 83.1 %		4						

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\*=Accredited Analyte

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Celey D. Keens



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

Fax To:

(505) 748-4635

Received:

10/18/2012

Reported:

10/24/2012

NONE GIVEN

Project Name:

NIX GP BATTERY

Project Number: Project Location:

EDDY

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S1 5' (H202544-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	<0.050	0.050	10/23/2012	ND	1.93	96.6	2.00	1.35	
Ethylbenzene*	<0.050 0.050		10/23/2012	10/23/2012 ND		96.7	2.00	1.60	
Total Xylenes*	lenes* <0.150 0.150		10/23/2012	ND	5.85	97.6	6.00	2.00	
Surrogate: 4-Bromofluorobenzene (PIL	rogate: 4-Bromofluorobenzene (PIL 103 % 89.4-12		6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	10/19/2012	ND	416	104	400	0.00	
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	10/19/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<10.0	10.0	10/19/2012	ND	159	79.4	200	9.04	
Surrogate: 1-Chlorooctane	76.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	e: 1-Chlorooctadecane 80.3 %		4						

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\*=Accredited Analyte

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Celey D. Keine



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

Fax To:

(505) 748-4635

Received:

10/18/2012

Reported:

10/24/2012

Project Name:

NIX GP BATTERY NONE GIVEN

Project Number: Project Location:

**EDDY** 

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S1 7' (H202544-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	<0.050	0.050	10/23/2012	ND	1.93	96.6	2.00	1.35	
Ethylbenzene*	* <0.050 0.050		10/23/2012	ND	1.93	96.7	2.00	1.60	
Total Xylenes* <0.150		0.150	10/23/2012	ND	5.85	97.6	6.00	2.00	
Surrogate: 4-Bromofluorobenzene (PIL	nofluorobenzene (PIL 103 % 89.4-12		6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6500	16.0	10/19/2012	ND	416	104	400	0.00	
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	10/19/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<10.0	10.0	10/19/2012	ND	159	79.4	200	9.04	
Surrogate: 1-Chlorooctane	74.4 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	78.1 9	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine



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

Fax To:

(505) 748-4635

Received: Reported: 10/18/2012

10/24/2012

Project Name:

NIX GP BATTERY NONE GIVEN

Project Number: Project Location:

**EDDY** 

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S2 3' (H202544-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.3	1.00	10/24/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	53.3	1.00	10/24/2012	ND	1.93	96.6	2.00	1.35	
Ethylbenzene*	zene* 9.98 1.00		10/24/2012	ND	1.93	96.7	2.00	1.60	
Total Xylenes* 4		3.00	10/24/2012	ND	5.85	97.6	6.00	2.00	
Surrogate: 4-Bromofluorobenzene (PIL	107	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					<del></del>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	10/19/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	778	50.0	10/20/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	263	50.0	10/20/2012	ND	159	79.4	200	9.04	
Surrogate: 1-Chlorooctane	88.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102	% 63.6-15	4						

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

Fax To:

(505) 748-4635

Received:

10/18/2012

Reported:

10/24/2012

NONE GIVEN

Project Name:

**NIX GP BATTERY** 

Project Number: Project Location:

**EDDY** 

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S2 5' (H202544-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	<0.050 0.050		10/23/2012	ND	1.93	96.6	2.00	1.35	
Ethylbenzene*	<0.050 0.050		10/23/2012	ND	1.93	96.7	2.00	1.60	
Total Xylenes*	(ylenes* <0.150 0.150		10/23/2012	ND	5.85	97.6	6.00	2.00	
Surrogate: 4-Bromofluorobenzene (PIL	105	% 89.4-12	6	. ,					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/19/2012	ND	416	104	400	0.00	
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	10/20/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<10.0	10.0	10/20/2012	ND .	159	79.4	200	9.04	
Surrogate: 1-Chlorooctane	79.5	79.5 % 65.2-140					• • •		
Surrogate: 1-Chlorooctadecane	84.4	% 63.6-15	4						

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Celey D. Keine



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

Fax To:

: (505) 748-4635

Received:

10/18/2012

Reported:

10/24/2012

Project Name: Project Number: NIX GP BATTERY NONE GIVEN

Project Location:

EDDY

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S2 7' (H202544-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050 0.050		10/23/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	<0.050 0.050		10/23/2012	2012 ND		96.6	2.00	1.35	
Ethylbenzene*	<0.050 0.050		10/23/2012	ND	1.93	96.7	2.00	1.60	•
Total Xylenes*	<0.150 0.150		10/23/2012	ND	5.85	97.6	6.00	2.00	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	10/19/2012	ND	416	104	400	0.00	
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	10/20/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<10.0	10.0	10/20/2012	ND	159	79.4	200	9.04	
Surrogate: 1-Chlorooctane	77.8	% 65.2-14	0			· · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	83.4 % 63.6-154		4						

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\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 9



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#### **Notes and Definitions**

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

Analyte NOT DETECTED at or above the reporting limit

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Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: YPC				BILL TO ANALYSIS REQUEST														
Project Manage	" Jacony Hous S					3-263	6											
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Project Name: Nix GP Battery				State:		Zip:		1		l		1	ļ :					
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