

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2000



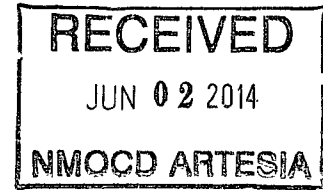
105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

JOHN A. YATES
CHAIRMAN OF THE BOARD

JOHN A. YATES JR.
PRESIDENT

JOHN D. PERINI
EXECUTIVE VP OF MONETIZATION
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER



June 2, 2014

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

Re: Nix Curtis BH Battery
30-015-20070
Section 30, T18S-R26E
Eddy County, New Mexico

Dear Mr. Bratcher,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated March 27, 2014.

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 June 9, 2014.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

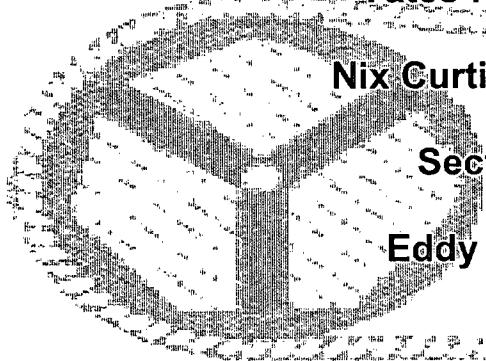
YATES PETROLEUM CORPORATION

Chase Settle
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER



Yates Petroleum Corporation

Nix Curtis BH Battery Work Plan

Section 30, T18S-R26E

Eddy County, New Mexico

June 2, 2014

I. Location

The release is located approximately 9 miles south of Artesia, 2.25 miles west on W. Kincaid Ranch Rd., and 0.5 mile northeast.

II. Background

On March 27, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 200 B/PW with 0 B/PW recovered. The total affected area is approximately 687 feet by 170 feet area running east and west of the produced water line. The release was from failure of a six (6) inch produced water flow line causing produced water to impact the soil around the pipeline. Initial delineation samples were taken (04/29/2014) and sent to a NMOCD approved laboratory (05/09/2014, results enclosed). Further sampling was conducted for chlorides (05/19/2014) and sent to a NMOCD approved laboratory (05/27/2014, results enclosed).

III. Surface and Ground Water

Area surface geology ranges from Cenozoic Quaternary to Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 30, T18S-R26E) that depth to groundwater is approximately 75' 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	50' - 99'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

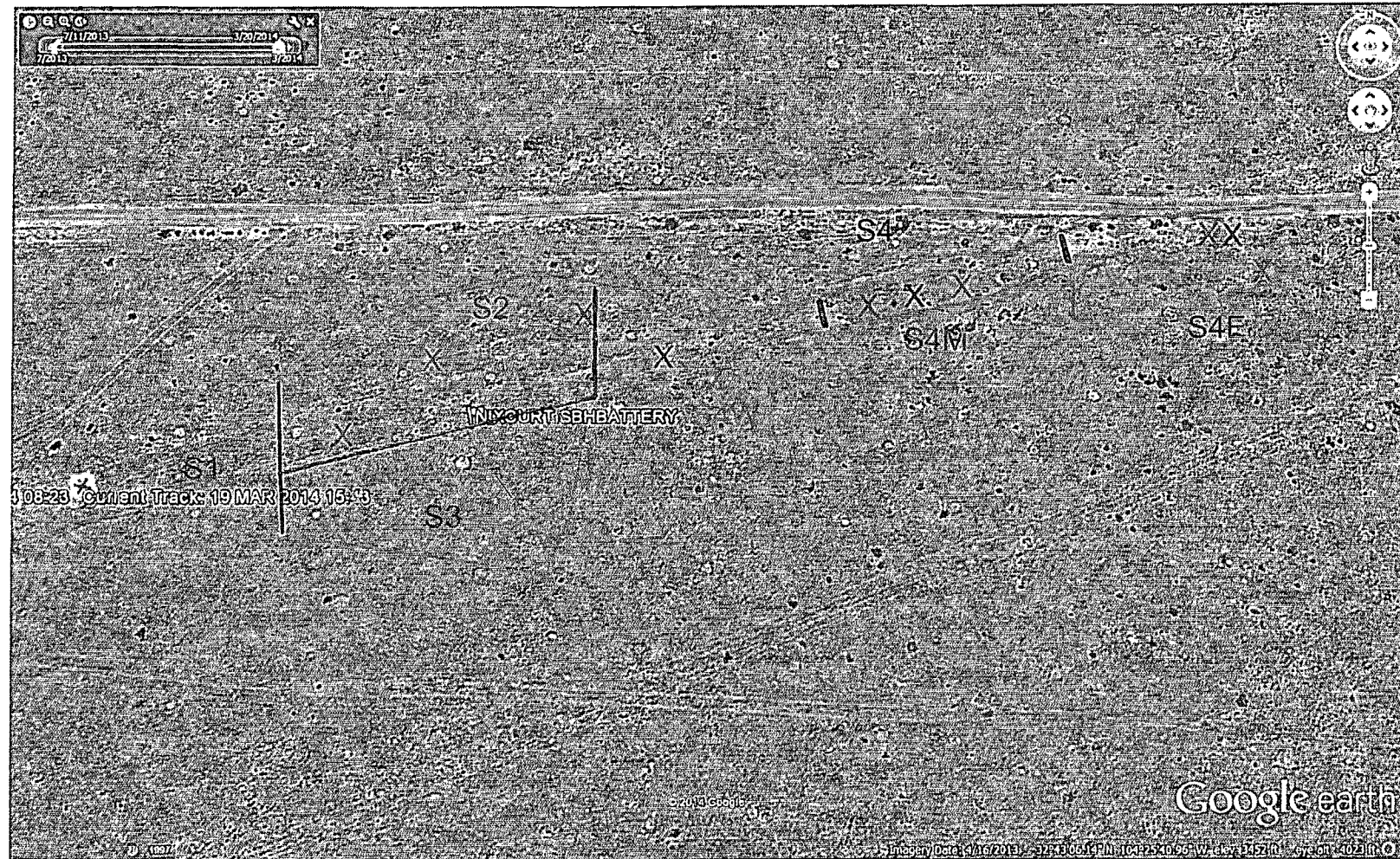
IV. Soils

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

V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (75'), and a decrease in chlorides, Yates Petroleum Corporation will excavate three (3) feet of impacted soil within the S1, S3, S4W, and S4E release area. Yates Petroleum Corporation will also excavate five (5) feet of impacted soil within the S4M release area. All excavated impacted soil will be hauled to a NMOCD approved facility. Yates Petroleum Corporation will not excavate any further in the S2 release area based on analytical data from sampling. The excavated area will be backfilled with like, similar topsoil to the natural curvature (depth) of the non-disturbed landscape around the release area, allowing for vegetative repopulation of the disturbed area and protection from groundwater contamination. The release area will be reseeded according to landowner preference, which through discussion was determined to be 3 lbs. Blue grama and 10 lbs. Little bluestem per acre. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report, analytical results and a site sample diagram will be submitted to the NMOCD and request closure of the site.

Nix Curtis BH Battery Sample Map



S1 Sample Points

S2 Sample Points

S3 Sample Points

S4 Sample Points

S4W Sample Points

S4M Sample Points

S4E Sample Points

H401316	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	4/29/2014	Backhoe	1'	<0.3	<10.0	<10.0	2400
S1-3'	Release Area	4/29/2014	Backhoe	3'	<0.3	<10.0	<10.0	1040
S1-5'	Release Area	4/29/2014	Backhoe	5'	<0.3	<10.0	<10.0	320
S1-7'	Release Area	4/29/2014	Backhoe	7'	<0.3	<10.0	<10.0	432
S2-1'	Release Area	4/29/2014	Backhoe	1'	<0.3	<10.0	<10.0	768
S2-3'	Release Area	4/29/2014	Backhoe	3'	<0.3	<10.0	<10.0	176
S2-5'	Release Area	4/29/2014	Backhoe	5'	<0.3	<10.0	<10.0	192
S2-7'	Release Area	4/29/2014	Backhoe	7'	<0.3	<10.0	<10.0	304
S3-1'	Release Area	4/29/2014	Backhoe	1'	<0.3	<10.0	<10.0	7600
S3-3'	Release Area	4/29/2014	Backhoe	3'	<0.3	<10.0	<10.0	608
S3-5'	Release Area	4/29/2014	Backhoe	5'	<0.3	<10.0	<10.0	368
S3-7'	Release Area	4/29/2014	Backhoe	7'	<0.3	<10.0	<10.0	288
S4-1'	Release Area	4/29/2014	Backhoe	1'	<0.3	<10.0	<10.0	12200
S4-3'	Release Area	4/29/2014	Backhoe	3'	<0.3	<10.0	<10.0	6400
S4-5'	Release Area	4/29/2014	Backhoe	5'	<0.3	<10.0	<10.0	144
S4-7'	Release Area	4/29/2014	Backhoe	7'	<0.3	<10.0	<10.0	112
H401532								
S3-2'	Release Area	5/19/2014	Hand Auger	2'	N/A	N/A	N/A	1070
S4W-1'	Release Area	5/19/2014	Hand Auger	1'	N/A	N/A	N/A	7900
S4W-2'	Release Area	5/19/2014	Hand Auger	2'	N/A	N/A	N/A	1520
S4W-3'	Release Area	5/19/2014	Hand Auger	3'	N/A	N/A	N/A	336
S4W-4'	Release Area	5/19/2014	Hand Auger	4'	N/A	N/A	N/A	512
S4M-1'	Release Area	5/19/2014	Hand Auger	1'	N/A	N/A	N/A	12000
S4M-2'	Release Area	5/19/2014	Hand Auger	2'	N/A	N/A	N/A	10600
S4M-3'	Release Area	5/19/2014	Hand Auger	3'	N/A	N/A	N/A	3120
S4M-4'	Release Area	5/19/2014	Hand Auger	4'	N/A	N/A	N/A	1230
S4E-1'	Release Area	5/19/2014	Hand Auger	1'	N/A	N/A	N/A	7040
S4E-2'	Release Area	5/19/2014	Hand Auger	2'	N/A	N/A	N/A	1620
S4E-3'	Release Area	5/19/2014	Hand Auger	3'	N/A	N/A	N/A	336
S4E-4'	Release Area	5/19/2014	Hand Auger	4'	N/A	N/A	N/A	192

Site Ranking is ten (10). DTGW 50-99' (approx 75', Section 30, T18S-R26E, Trend Map)

All results are ppm. Chlorides for documentation

Released: 200 B/PW; Recovered: 0 B/PW Release Date: 03/17/2014



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

May 27, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: NIX CURTIS BH BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/20/14 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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 PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/20/2014	Sampling Date:	05/19/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S3-2' (H401532-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	05/23/2014	ND	416	104	400	0.00	

Sample ID: S4W-1' (H401532-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7900	16.0	05/23/2014	ND	416	104	400	0.00	

Sample ID: S4W-2' (H401532-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	05/23/2014	ND	416	104	400	0.00	

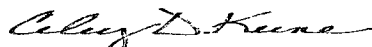
Sample ID: S4W-3' (H401532-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/23/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 05/20/2014
 Reported: 05/27/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 05/19/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S4W-4' (H401532-05)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/23/2014	ND	416	104	400	0.00	

Sample ID: S4M-1' (H401532-06)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	05/23/2014	ND	416	104	400	0.00	

Sample ID: S4M-2' (H401532-07)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	05/23/2014	ND	416	104	400	0.00	

Sample ID: S4M-3' (H401532-08)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	05/23/2014	ND	416	104	400	0.00	

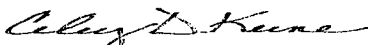
Sample ID: S4M-4' (H401532-09)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	05/23/2014	ND	416	104	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/20/2014	Sampling Date:	05/19/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S4E-1' (H401532-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	05/23/2014	ND	416	104	400	0.00	

Sample ID: S4E-2' (H401532-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	05/23/2014	ND	416	104	400	0.00	

Sample ID: S4E-3' (H401532-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/23/2014	ND	416	104	400	0.00	

Sample ID: S4E-4' (H401532-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/23/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

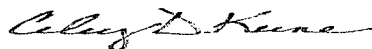
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name: Nix Curtis BH Battery

Comp: (505) 393-2326 Yates Petroleum Corporation

Project #: _____

Company Address: 105 South 4th Street

Project Loc: Nix Curtis BH Battery

City/State/Zip: Artesia, NM 88210

PO #: 205-750

Telephone No: 575-748-4174

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature]

e-mail: csettle@yatespetroleum.com

(lab use only)
ORDER #: H401532

ORDER #: H401532

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix													RUSH TAT (Pre-Schedule) 24, 48, 72	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8013B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.			Chlorides	SAR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Special Instructions:

Laboratory Comments:

Relinquished by: <u>[Signature]</u>	Date: <u>5-20-14</u>	Time: <u>9:10</u>	Received by: <u>[Signature]</u>	Date: <u>5/20/14</u>	Time: <u>9:10</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by ELOT:	Date:	Time:

Sample Containers Intact? ☒
 VOCs Free of Headspace? ☒
 Labels on container(s) ☒
 Custody seals on container(s) ☒
 Custody seals on cooler(s) ☒
 Sample Hand Delivered
 by Sampler/Client Rep. ? ☒
 by Courier? UPS DHL FedEx Lone Star
 Temperature Upon Receipt: 21.2 °C



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

May 09, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: NIX CURTIS BH BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/30/14 5:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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 PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-1' (H401316-01)

BTEX 8260B			mg/kg		Analyzed By: ms			S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 98.2 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 144 % 65.7-141

Chloride, SM4500Cl-B			mg/kg				Analyzed By: AP		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	05/07/2014	ND	400	100	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	<10.0	10.0	05/07/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	202	101	200	1.64	

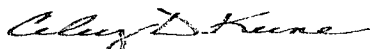
Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-3' (H401316-02)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 114 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	05/07/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

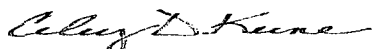
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-5' (H401316-03)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 108 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/07/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	


Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-7' (H401316-04)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 98.3 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 108 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/07/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

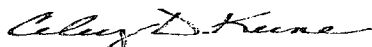
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2-1' (H401316-05)

BTEx 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEx	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	05/07/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

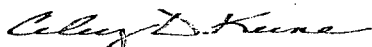
Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.0 % 63.6-154

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Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2-3' (H401316-06)

BTEX 8260B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/07/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

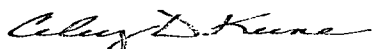
Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 04/30/2014
Reported: 05/09/2014
Project Name: NIX CURTIS BH BATTERY
Project Number: NONE GIVEN
Project Location: EDDY

Sampling Date: 04/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-5' (H401316-07)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 98.4 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/07/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

Surrogate: 1-Chlorooctane 99.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Analytical Results For:

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CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 04/30/2014
Reported: 05/09/2014
Project Name: NIX CURTIS BH BATTERY
Project Number: NONE GIVEN
Project Location: EDDY

Sampling Date: 04/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-7' (H401316-08)

BTEx 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEx	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 93.5 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/07/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	


Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3-1' (H401316-09)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 97.3 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 98.6 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	05/07/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

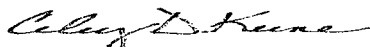
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3-3' (H401316-10)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 94.8 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	05/08/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3-5' (H401316-11)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 94.6 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.8 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/08/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	


Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3-7' (H401316-12)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 95.1 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/08/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

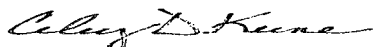
Surrogate: 1-Chlorooctane 96.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 04/30/2014
Reported: 05/09/2014
Project Name: NIX CURTIS BH BATTERY
Project Number: NONE GIVEN
Project Location: EDDY

Sampling Date: 04/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4-1' (H401316-13)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 96.7 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	05/08/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4-3' (H401316-14)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 95.5 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	05/08/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

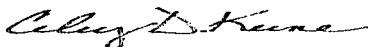
Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 04/30/2014
 Reported: 05/09/2014
 Project Name: NIX CURTIS BH BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY

 Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4-5' (H401316-15)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 98.1 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/08/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

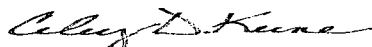
Surrogate: 1-Chlorooctane 97.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.8 % 63.6-154

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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 04/30/2014
Reported: 05/09/2014
Project Name: NIX CURTIS BH BATTERY
Project Number: NONE GIVEN
Project Location: EDDY

Sampling Date: 04/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4-7' (H401316-16)

BTEX 8260B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					

Surrogate: Dibromofluoromethane 95.8 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/08/2014	ND	400	100	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	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	

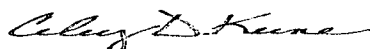
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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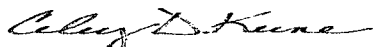
Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 19 of 20

Project Manager: Chase Settle

Project Name: Nix-Curtis BH Battery

Comp: (505) 393-2326 Yates Petroleum Corporation

Project #:

Company Address: 105 South 4th Street

Project Loc: Nix Curtis BH Battery

City/State/Zip: Artesia, NM 88210

PO #: 205-750

Telephone No: 575-748-4171

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature] e-mail: csettle@yatespetroleum.com

(lab use only)

ORDER #: H401316

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Mn Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	S1-1'			4/29/2014	9:00 AM		1	X								S	X							X			X				X
2	S1-3'			4/29/2014	9:00 AM		1	X								S	X							X			X				X
3	S1-5'			4/29/2014	9:00 AM		1	X								S	X							X			X				X
4	S1-7'			4/29/2014	9:00 AM		1	X								S	X							X			X				X
5	S2-1'			4/29/2014	10:30 AM		1	X								S	X							X			X				X
6	S2-3'			4/29/2014	10:30 AM		1	X								S	X							X			X				X
7	S2-5'			4/29/2014	10:30		1	X								S	X							X			X				X
8	S2-7'			4/29/2014	10:30		1	X								S	X							X			X				X

Special Instructions:

Laboratory Comments:

Relinquished by: <u>[Signature]</u>	Date: <u>4/30/14</u>	Time: <u>3:15</u>	Received by: <u>[Signature]</u>	Date: <u></u>	Time: <u></u>	Sample Containers Intact? <u>Y</u>	<u>N</u>
Relinquished by: <u>[Signature]</u>	Date: <u></u>	Time: <u></u>	Received by: <u>[Signature]</u>	Date: <u></u>	Time: <u></u>	VOCs Free of Headspace? <u>Y</u>	<u>N</u>
Relinquished by: <u>[Signature]</u>	Date: <u></u>	Time: <u></u>	Received by: <u>[Signature]</u>	Date: <u>4/30/14</u>	Time: <u>5:00</u>	Labels on container(s) <u>Y</u>	<u>N</u>
						Custody seals on container(s) <u>Y</u>	<u>N</u>
						Custody seals on cooler(s) <u>Y</u>	<u>N</u>
						Sample Hand Delivered <u>Y</u>	<u>N</u>
						by Sampler/Client Rep. ? <u>Y</u>	<u>N</u>
						by Courier? <u>UPS</u>	<u>DHL</u> <u>FedEx</u> <u>Lone Star</u>
						Temperature Upon Receipt: <u>3.4</u>	<u>°C</u>

#54



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name: Nix Curtis BH Battery

Comp: (505) 393-2326 Yates Petroleum Corporation

Project #: _____

Company Address: 105 South 4th Street

Project Loc: Nix Curtis BH Battery

City/State/Zip: Artesia, NM 88210

PO #: 205-750

Telephone No: 575-748-4171

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature]

e-mail: csettle@yatespetroleum.com

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(lab use only)

ORDER #: H401316

ORDER #:		H401316															Preservation & # of Containers										Matrix										RUSH TAT (Pre-Schedule) 24, 48, 72	
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1	8015M	8015B	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	Standard TAT			
9	S3-1'			4/29/2014	12:00 PM		1	X								S			X										X			X			X			
10	S3-3'			4/29/2014	12:00 PM		1	X								S			X										X			X			X			
11	S3-5'			4/29/2014	12:00 PM		1	X								S			X										X			X			X			
12	S3-7'			4/29/2014	12:00 PM		1	X								S			X										X			X			X			
13	S4-1'			4/29/2014	1:15 PM		1	X								S			X										X			X			X			
14	S4-3'			4/29/2014	1:15 PM		1	X								S			X										X			X			X			
15	S4-5'			4/29/2014	13:15		1	X								S			X										X			X			X			
16	S4-7'			4/29/2014	13:15		1	X								S			X										X			X			X			

Special Instructions:

Relinquished by: <u>[Signature]</u>	Date: <u>4/30/14</u>	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: <u>Jodi Benson</u>	Date: <u>4/30/14</u>	Time: <u>5:00</u>
Relinquished by:	Date:	Time:	Received by ELOT:	Date:	Time:

Laboratory Comments:

Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 3.4 °C

#54