

Bratcher, Mike, EMNRD

From: Chase Settle <CSettle@yatespetroleum.com>
Sent: Wednesday, February 12, 2014 9:19 AM
To: Bratcher, Mike, EMNRD
Cc: jamos@blm.gov; Duncan Whitlock (dwhitloc@blm.gov); Bob Asher
Subject: Llama ALL Federal #1
Attachments: Llama ALL Federal #1 (02-12-14 C141 Final & Sundry).pdf

RE: Llama ALL Federal #1

30-015-28093

Section 7, T22S-R31E

Eddy County, NM

Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on 01/04/2014 (20 bbls of oil and 10 bbls of produced water with 0 bbls of oil and 0 bbls of produced water recovered). The cause of the release was due to a steel flow line experiencing a puncture and releasing oil and produced water. The release area was sampled on 01/23/2014 and sent for analysis (TPH, BTEX, and chlorides for documentation) at an NMOCD approved laboratory. The results for BTEX and Total TPH are below the RRAL's for the site ranking of 0 and depth to groundwater is approximately 150' per the ChevronTexaco trend map. Based on the enclosed analytical sampling results and depth to groundwater, Yates Petroleum Corporation requests closure. The affected soils were excavated and taken to an approved NMOCD facility and we believe the vertical chloride elevation at 4' is due to naturally occurring chlorides since that area has received no precipitation to leach the chlorides deeper into the soil and the 2 sample areas having the same chloride level at 4' even though saturation levels differed between the S1 and S2 sample areas (S1 was much more saturated).

If you have any questions, please call me at 575-748-4171.

Thank you,

Chase Settle

**Environmental Regulatory Agent
Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)**

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NM-81952

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Yates Petroleum Corporation

3a. Address
105 S. 4th St., Artesia, NM 88210

3b. Phone No. (include area code)
575-748-4171

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
330' FSL & 950' FWL, Section 7, T22S-R31E

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
Llama ALL Federal #1

9. API Well No.
30-015-28093

10. Field and Pool or Exploratory Area

11. County or Parish, State
Eddy County, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

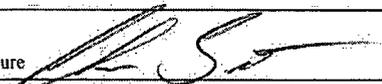
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat.	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Completion of clean-up actions.
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Steel flow line developed a leak releasing 20 B crude oil and 10 B produced water with no volume recovered. A new connection and line were installed to alleviate the problem. Release affected approximately 5' of the berm and an area outside of the berm flowing NW of the location. The outside area affected is 50' N of the berm, along a line 110' W, then follow a line 60' S, then a line 75' SE back to the berm at a point approximately 5 feet from the NW corner of the berm. The affected berm is to be excavated and removed, along with the area off of location to be excavated and back dragged. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. TPH & BTEX analytical results are under RRAL's (site ranking is 0). Impacted soils were excavated and hauled to a NMOCD approved facility. Depth to Ground Water: >100' (approximately 150', Section 7, T22S-R31E, per Trend Map); Wellhead Protection Area: No; Distance to Surface Water Body: > 1000'. SITE RANKING IS 0. Based on analytical results, impacted soils excavated and depth to groundwater, Yates Petroleum Corporation requests closure.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Chase Settle

Title NM Environmental Regulatory Agent

Signature 

Date 02/11/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by:

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

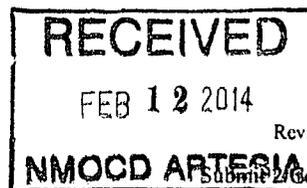
Title _____ Date _____

Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-141
Revised October 10, 2003
Submit 2 copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Chase Settle
Address 104 S. 4 TH Street	Facility Name Llama ALL Federal #1 Battery	Telephone No. 575-748-4171
Facility Name Llama ALL Federal #1 Battery	API Number 30-015-28093	Facility Type Battery

Surface Owner Federal	Mineral Owner Federal	Lease No. NM-81952
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LOCATION OF RELEASE

Unit Letter M	Section 7	Township 22S	Range 31E	Feet from the 330'	North/South Line South	Feet from the 950'	East/West Line West	County Eddy
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Latitude 32.39957 Longitude -103.82199

NATURE OF RELEASE

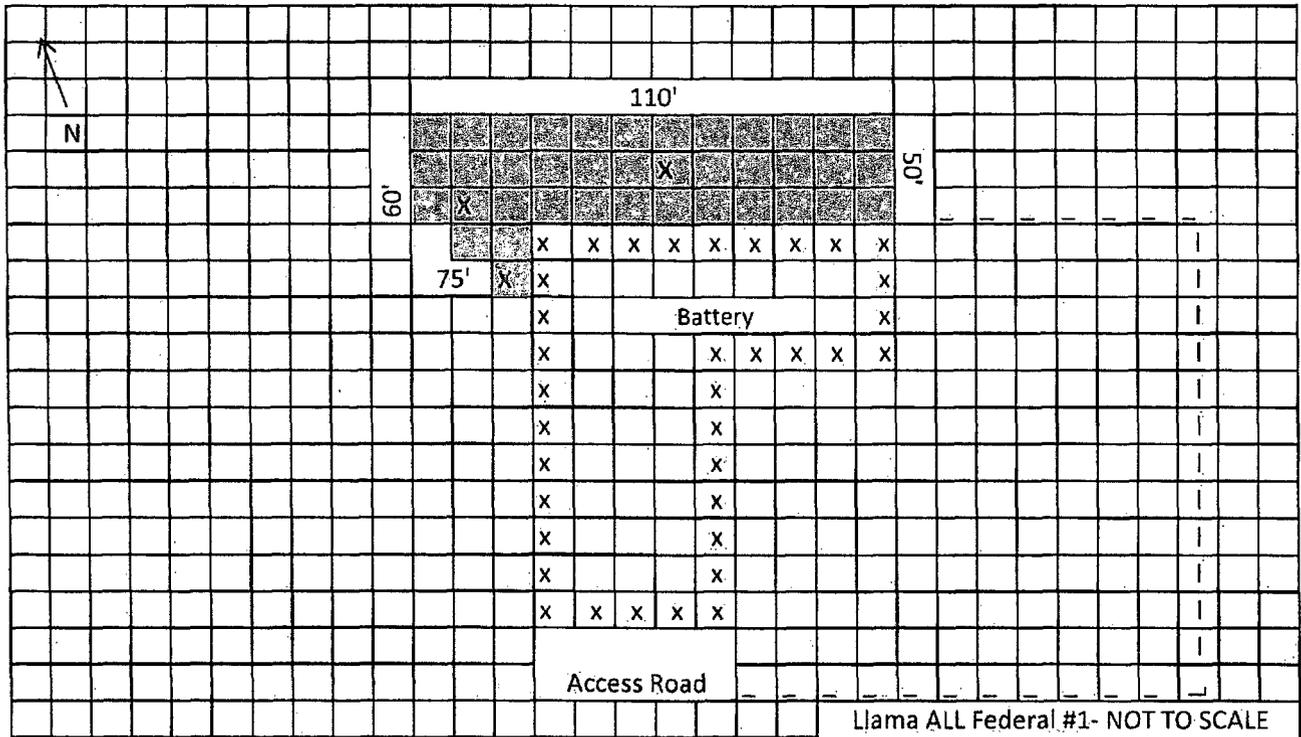
Type of Release Crude Oil/ Produced Water	Volume of Release 20 B/O 10 B/PW	Volume Recovered 0 B/O 0 B/PW
Source of Release Rupture of flow line	Date and Hour of Occurrence 01/04/2014; PM	Date and Hour of Discovery 01/04/2014; PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Randy Dade, Jim Amos	
By Whom? Robert Asher	Date and Hour 01/05/2014 7:41 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		

Describe Cause of Problem and Remedial Action Taken.*
Steel flow line developed a leak releasing crude oil and produced water, new connection and line were installed to alleviate the problem.

Describe Area Affected and Cleanup Action Taken.*
Release affected approximately 5' of the berm and an area outside of the berm flowing NW of the location. The outside area affected is 50' N of the berm, along a line 110' W, then follow a line 60' S, then a line 75' SE back to the berm at a point approximately 5 feet from the NW corner of the berm. The affected berm is to be excavated and removed, along with the area off of location to be excavated and back dragged. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. TPH & BTEX analytical results are under RRAL's (site ranking is 0). Impacted soils were excavated and hauled to a NMOCD approved facility. Depth to Ground Water: >100' (approximately 150', Section 7, T22S-R31E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', SITE RANKING IS 0. Based on analytical results, impacted soils excavated and depth to groundwater, Yates Petroleum Corporation requests closure.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Approved by District Supervisor:	
Title: NM Environmental Regulatory Agent	Approval Date:	Expiration Date:
E-mail Address: csettle@yatespetroleum.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Tuesday, February 11, 2014 Phone: 575-748-4171	2RP-	



Release Area
 X S1 Sample Location
 X S2 Sample Location

Analytical Report- H400297 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1 1'	Release Area	1/23/2014	Backhoe	1'	<0.3	<10.0	<10.0	208
S1 2'	Release Area	1/23/2014	Backhoe	2'	<0.3	<10.0	<10.0	336
S1 3'	Release Area	1/23/2014	Backhoe	3'	<0.3	<10.0	<10.0	416
S1 4'	Release Area	1/23/2014	Backhoe	4'	<0.3	<10.0	<10.0	480
S2 1'	Release Area	1/23/2014	Backhoe	1'	<0.3	<10.0	<10.0	80
S2 2'	Release Area	1/23/2014	Backhoe	2'	<0.3	<10.0	<10.0	96
S2 3'	Release Area	1/23/2014	Backhoe	3'	<0.3	<10.0	<10.0	128
S2 4'	Release Area	1/23/2014	Backhoe	4'	<0.3	<10.0	<10.0	480

Site Ranking is Zero (0). DTGW >100' (approx 150', Section 7, T22S-R31E, Trend Map)

All results are ppm, Chlorides for documentation.

Released: 20 B/O, 10 B/PW; Recovered: 0 B/O, 0 B/PW Release Date: 1/4/2014



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

February 07, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: LLAMA ALL FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 01/30/14 11:06.

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,

A handwritten signature in cursive script that reads "Celey D. Keene".

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:	01/30/2014	Sampling Date:	01/23/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	LLAMA ALL FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	LLAMA ALL FEDERAL #1		

Sample ID: S1 1' (H400297-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/05/2014	ND	416	104	400	0.00	

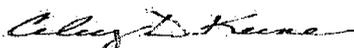
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/01/2014	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	02/01/2014	ND	214	107	200	2.09	

Surrogate: 1-Chlorooctane 82.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 94.4 % 63.6-154

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:	01/30/2014	Sampling Date:	01/23/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	LLAMA ALL FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	LLAMA ALL FEDERAL #1		

Sample ID: S1 2' (H400297-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 115 % 89.4-126

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	02/07/2014	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	<10.0	10.0	02/01/2014	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	02/01/2014	ND	214	107	200	2.09	

Surrogate: 1-Chlorooctane 85.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.5 % 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:	01/30/2014	Sampling Date:	01/23/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	LLAMA ALL FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	LLAMA ALL FEDERAL #1		

Sample ID: S1 3' (H400297-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86		
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74		
Total BTEX	<0.300	0.300	02/05/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 113% 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/07/2014	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	<10.0	10.0	02/01/2014	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	02/01/2014	ND	214	107	200	2.09		

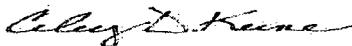
Surrogate: 1-Chlorooctane 81.0% 65.2-140

Surrogate: 1-Chlorooctadecane 82.4% 63.6-154

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:	01/30/2014	Sampling Date:	01/23/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	LLAMA ALL FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	LLAMA ALL FEDERAL #1		

Sample ID: S1 4' (H400297-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114% 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/07/2014	ND	416	104	400	0.00	

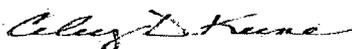
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/01/2014	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	02/01/2014	ND	214	107	200	2.09	

Surrogate: 1-Chlorooctane 85.3% 65.2-140
Surrogate: 1-Chlorooctadecane 84.5% 63.6-154

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:	01/30/2014	Sampling Date:	01/23/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	LLAMA ALL FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	LLAMA ALL FEDERAL #1		

Sample ID: S2-1' (H400297-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/05/2014	ND	2.54	127	2.00	0.915		
Toluene*	<0.050	0.050	02/05/2014	ND	2.49	125	2.00	0.516		
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.49	124	2.00	0.462		
Total Xylenes*	<0.150	0.150	02/05/2014	ND	7.18	120	6.00	0.427		
Total BTEX	<0.300	0.300	02/05/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/07/2014	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	<10.0	10.0	02/01/2014	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	02/01/2014	ND	214	107	200	2.09		

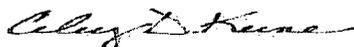
Surrogate: 1-Chlorooctane 91.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.2 % 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:	01/30/2014	Sampling Date:	01/23/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	LLAMA ALL FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	LLAMA ALL FEDERAL #1		

Sample ID: S2 2' (H400297-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/05/2014	ND	2.54	127	2.00	0.915		
Toluene*	<0.050	0.050	02/05/2014	ND	2.49	125	2.00	0.516		
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.49	124	2.00	0.462		
Total Xylenes*	<0.150	0.150	02/05/2014	ND	7.18	120	6.00	0.427		
Total BTEX	<0.300	0.300	02/05/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/07/2014	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	<10.0	10.0	02/01/2014	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	02/01/2014	ND	214	107	200	2.09		

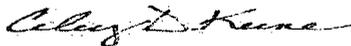
Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chloroöctadecane 97.9 % 63.6-154

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* = Accredited Analyte

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Celest 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:	01/30/2014	Sampling Date:	01/23/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	LLAMA ALL FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	LLAMA ALL FEDERAL #1		

Sample ID: S2 3' (H400297-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.54	127	2.00	0.915	
Toluene*	<0.050	0.050	02/05/2014	ND	2.49	125	2.00	0.516	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.49	124	2.00	0.462	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	7.18	120	6.00	0.427	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/07/2014	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	<10.0	10.0	02/01/2014	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	02/01/2014	ND	214	107	200	2.09	

Surrogate: 1-Chlorooctane 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.6 % 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:	01/30/2014	Sampling Date:	01/23/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	LLAMA ALL FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	LLAMA ALL FEDERAL #1		

Sample ID: S2 4' (H400297-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.54	127	2.00	0.915	
Toluene*	<0.050	0.050	02/05/2014	ND	2.49	125	2.00	0.516	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.49	124	2.00	0.462	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	7.18	120	6.00	0.427	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/07/2014	ND	416	104	400	0.00	

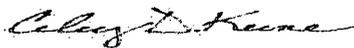
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/01/2014	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	02/01/2014	ND	214	107	200	2.09	

Surrogate: 1-Chlorooctane 99.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

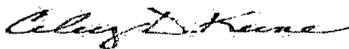
Notes and Definitions

- 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

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