

Bratcher, Mike, EMNRD

From: Amber Cannon <ACannon@yatespetroleum.com>
Sent: Monday, February 24, 2014 9:12 AM
To: Bratcher, Mike, EMNRD; Duncan Whitlock
Subject: Martha AIK Federal #4
Attachments: MarthaAIKFederal4_Workplan_022414.pdf

Importance: High

Mike/Duncan,

Please find attached a work plan for the release that occurred on November 6, 2013 at the Martha AIK Federal #4 (2RP-2078).

If either of you object to Yates' proposal, please let me know. Yates would like to get started on or before March 3, 2014.

Thanks,

Amber Cannon

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

MARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S. P. YATES

1914-2008



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ARTESIA, NEW MEXICO 88210-2118

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CHAIRMAN OF THE BOARD
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JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

February 24, 2014

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

Mr. Duncan Whitlock
BLM – Carlsbad Field Office
620 East Greene Street
Carlsbad, NM 88220

RE: Martha AIK Federal #4 (2RP-2078)
30-015-26724
Section 11, T22S-R31E
Eddy County, New Mexico

Mr. Bratcher and Mr. Whitlock,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on November 6, 2013. The release was 80 barrels produced water and 20 barrels of oil, with no amounts recovered. The release occurred as a result of a cow knocking a valve open on the wellhead. The release flowed across the production pad and into the pasture off the west side of the pad. After the release occurred, Yates excavated all visually impacted soils from the pad area (approximately 6") and off pad area (approximately 1'-1.5').

Initial TPH/BTEX and Chloride delineation samples were taken and were sent to a NMOCD approved facility. The release area was split and sampled in two separate sections (off pad composite and pad composite), please see analytical report H400013. The initial analytical results showed elevated chloride levels in the off pad composite sample at 3', and as a result Yates did further vertical delineation in the off pad composite area, please see analytical report H400424.

Based off of vertical delineation analytical results, Yates Petroleum Corporation proposes the following.

Production pad:

- 1' to be excavated and backfilled with clean-like materials.

Off Production pad:

- Yates feels that the elevated chlorides found at 3' in the off pad area are a result of an isolated chloride pocket that we feel will not cause harm. Yates proposes to only backfill the area that has already been excavated with clean-like materials.

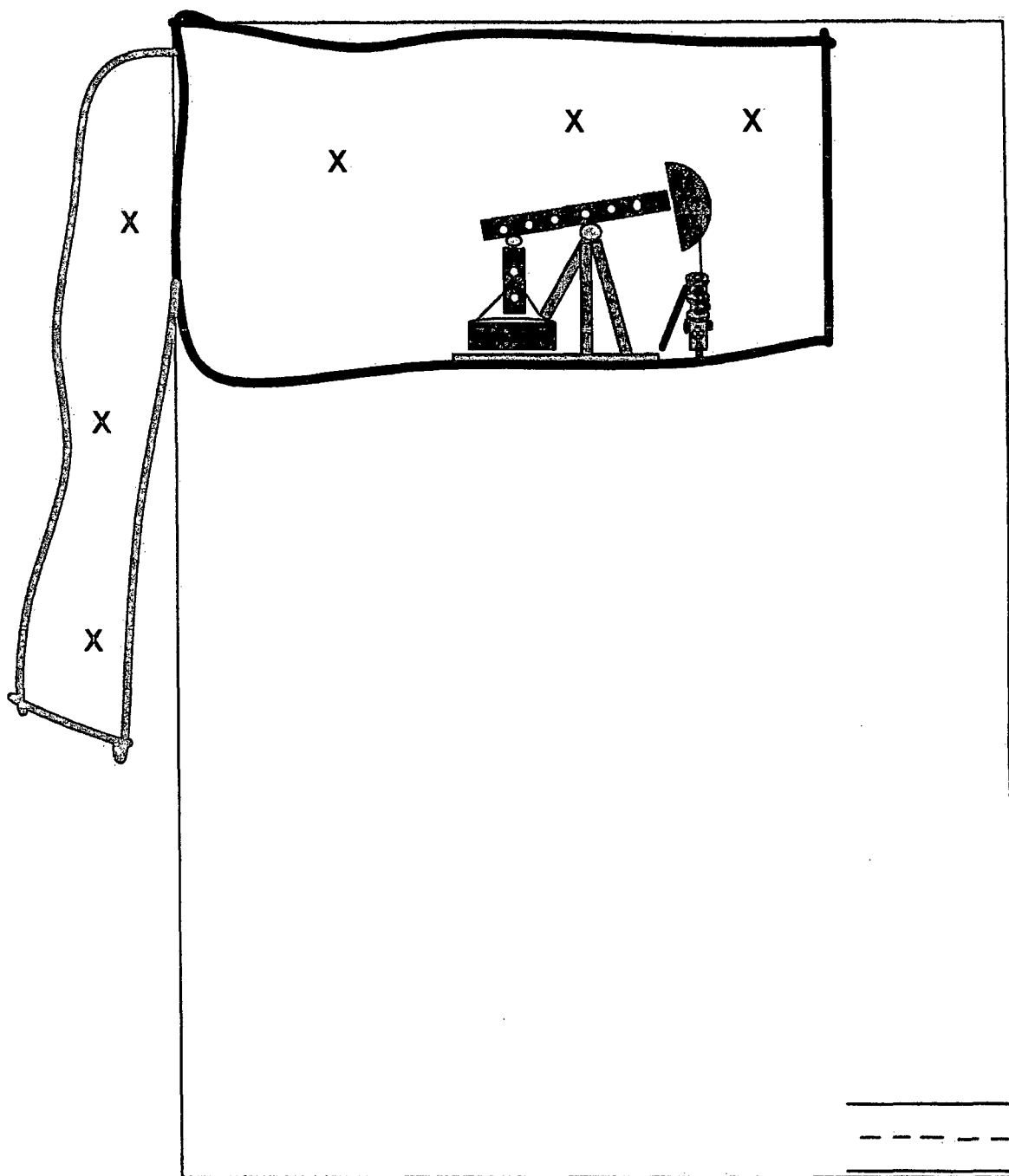
KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

YATES PETROLEUM CORPORATION

Monday, February 24, 201

Martha AIK Federal #4
Release Date: 11/6/2013; 2RP-2078



DRAWING NOT TO SCALE

Martha AIK Federal #4

Cardinal Laboratories

Analytical Report- H400013	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
OFF PAD COMP 1'	Release Area	1/2/2014	Grab/Backhoe	1'	ND	ND	37.4	37.4	240
OFF PAD COMP 2'	Release Area	1/2/2014	Grab/Backhoe	2'	ND	ND	ND	ND	208
OFF PAD COMP 3'	Release Area	1/2/2014	Grab/Backhoe	3'	ND	ND	ND	ND	3,040
PAD COMP 1'	Release Area	1/2/2014	Grab/Backhoe	1'	0.113	ND	ND	ND	3,960
PAD COMP 2'	Release Area	1/2/2014	Grab/Backhoe	2'	ND	ND	ND	ND	1,600
PAD COMP 3'	Release Area	1/2/2014	Grab/Backhoe	3'	ND	ND	ND	ND	1,220

Analytical Report- H400013	Sample Area	Sample Date	Sample Type	Depth	Chlorides
OFF PAD COMP 4'	Release Area	2/10/2014	Grab/Backhoe	4'	192
OFF PAD COMP 5'	Release Area	2/10/2014	Grab/Backhoe	5'	ND
OFF PAD COMP 6'	Release Area	2/10/2014	Grab/Backhoe	6'	64

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 100'-150', Section 11-22S-31E, per Trend Map).

All results are ppm.Chlorides for documentation.

Released: 80 B/PW, 20 B/O; Recovered: 0 B/PW, 0 B/O. Release Date: 11/6/2013. 2RP-2078



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

January 09, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #4

Enclosed are the results of analyses for samples received by the laboratory on 01/03/14 10:30.

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	Halopacetic 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
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	01/03/2014	Sampling Date:	01/02/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	30-015-26724	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: OFF PAD COMP 1' (H400013-01)

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	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTEX	<0.300	0.300	01/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2014	ND	213	107	200	1.63	
DRO >C10-C28	37.4	10.0	01/04/2014	ND	212	106	200	3.24	

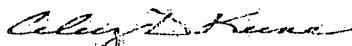
Surrogate: 1-Chlorooctane 98.9 % 63.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/03/2014	Sampling Date:	01/02/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	30-015-26724	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: OFF PAD COMP 2' (H400013-02)

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	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTEX	<0.300	0.300	01/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

TPH 8015M	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2014	ND	213	107	200	1.63	
DRO >C10-C28	<10.0	10.0	01/04/2014	ND	212	106	200	3.24	

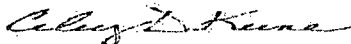
Surrogate: 1-Chlorooctane 98.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.5 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/03/2014
 Reported: 01/09/2014
 Project Name: MARTHA AIK FEDERAL #4
 Project Number: 30-015-26724
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/02/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: OFF PAD COMP 3' (H400013-03)

BTX 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	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTX	<0.300	0.300	01/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2014	ND	213	107	200	1.63	
DRO >C10-C28	<10.0	10.0	01/04/2014	ND	212	106	200	3.24	

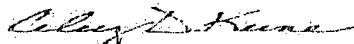
Surrogate: 1-Chlorooctane 91.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/03/2014	Sampling Date:	01/02/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	30-015-26724	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: PAD COMP 1' (H400013-04)

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	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	0.061	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	0.052	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTEX	<0.300	0.300	01/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2014	ND	213	107	200	1.63	
DRO >C10-C28	<10.0	10.0	01/04/2014	ND	212	106	200	3.24	

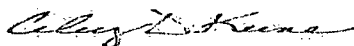
Surrogate: 1-Chlorooctane 95.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.4 % 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
AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 01/03/2014
Reported: 01/09/2014
Project Name: MARTHA AIK FEDERAL #4
Project Number: 30-015-26724
Project Location: EDDY COUNTY, NM

Sampling Date: 01/02/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD COMP 2 (H400013-05)

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	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTEX	<0.300	0.300	01/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103.9% 89.4-126

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	<10.0	10.0	01/04/2014	ND	213	107	200	1.63	
DRO >C10-C28	<10.0	10.0	01/04/2014	ND	212	106	200	3.24	

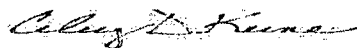
Surrogate: 1-Chlorooctane 88.9% 63.2-140

Surrogate: 1-Chlorooctadecane 88.5% 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/03/2014	Sampling Date:	01/02/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	30-015-26724	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: PAD COMP 3' (H400013-06)

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	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTEX	<0.300	0.300	01/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2014	ND	213	107	200	1.63	
DRO >C10-C28	<10.0	10.0	01/04/2014	ND	212	106	200	3.24	

Surrogate: 1-Chlorooctane 86.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.2 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

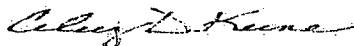
Notes and Definitions

- 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

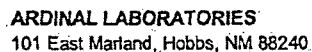
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Page 9 of 9

Project Manager: Amber Cannon

Project Name: Martha AIK Federal #4

Company Name Yates Petroleum Corporation

Project #: 30-015-26724

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 205-2020

Telephone No: 575-748-4111 or 575-513-8799

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

[illegible]



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

January 09, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #4

Enclosed are the results of analyses for samples received by the laboratory on 01/03/14 10:30.

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

 Received: 01/03/2014
 Reported: 01/09/2014
 Project Name: MARTHA AIK FEDERAL #4
 Project Number: 30-015-26724
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/02/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: OFF PAD COMP 1' (H400013-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/08/2014	ND	416	104	400	3.77	

Sample ID: OFF PAD COMP 2' (H400013-02)

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	01/08/2014	ND	416	104	400	3.77	

Sample ID: OFF PAD COMP 3' (H400013-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	01/08/2014	ND	416	104	400	3.77	

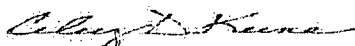
Sample ID: PAD COMP 1' (H400013-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	01/08/2014	ND	416	104	400	3.77	

Cardinal Laboratories

* = Accredited Analyte

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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
AMBER CANNON
105 S. 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	01/03/2014	Sampling Date:	01/02/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	30-015-26724	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: PAD COMP 2' (H400013-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	01/08/2014	ND	416	104	400	3.77	

Sample ID: PAD COMP 3' (H400013-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	01/08/2014	ND	416	104	400	3.77	

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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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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: Amber CannonCompany Name: Yates Petroleum CorporationCompany Address: 105 South 4th StreetCity/State/Zip: Artesia, NM 88210Telephone No: 575-748-4111 or 575-513-8799Sampler Signature: Amber CannonFax No: 575-748-4131e-mail: acannon@yatespetroleum.comProject Name: Martha Aik Federal #4Project #: 30-015-26724Project Loc: Eddy CountyPO #: 205-2020Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Page 5 of 5

(lab use only)

ORDER #: H400013

(lab use only)		TCCLP:		Analyze For:																																
ORDER #: H400013		TOTAL:																																		
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers								Matrix		8015B	8015M	8015B	TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	NORM	Chlorides	SAR	RUSH TAT (pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	OFF PAD Comp 1'	1'	1'	1/2/2014	12:08 PM	1	X									S	X									X										X
2	OFF PAD Comp 2'	2'	2'	1/2/2014	12:10 PM	1	X									S	X									X										X
3	OFF PAD Comp 3'	3'	3'	1/2/2014	12:12 PM	1	X									S	X									X										X
4	PAD Comp 1'	1'	1'	1/2/2014	12:40 PM	1	X									S	X									X										X
5	PAD Comp 2'	2'	2'	1/2/2014	12:42 PM	1	X									S	X									X										X
6	PAD Comp 3'	3'	3'	1/2/2014	12:44 PM	1	X									S	X									X										X
															</																					

Special Instructions:

TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.

Laboratory Comments:

Sample Containers Intact? ☒ N

VOCs Free of Headspace? ☒ N

Labels on container(s)? ☒ N

Custody seals on container(s)? ☒ N

Custody seals on cooler(s)? ☒ N

Sample Hand Delivered by Sampler/Client Rep? ☒ N

by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star

Temperature Upon Receipt: 0.0 °C

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

#54



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

February 14, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #4

Enclosed are the results of analyses for samples received by the laboratory on 02/12/14 13:20.

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



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

Analytical Results For:

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

Received: 02/12/2014
Reported: 02/14/2014
Project Name: MARTHA AIK FEDERAL #4
Project Number: 30-015-26724
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: OFF PAD COMP 4' (H400424-01)

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	02/14/2014	ND	416	104	400	3.92	

Sample ID: OFF PAD COMP 5' (H400424-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/14/2014	ND	416	104	400	3.92	

Sample ID: OFF PAD COMP 6' (H400424-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2014	ND	416	104	400	3.92	

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Celestine D. Keene

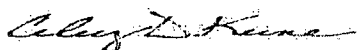
Celestine D. Keene, Lab Director/Quality Manager

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

Bratcher, Mike, EMNRD

From: Amber Cannon <ACannon@yatespetroleum.com>
Sent: Monday, December 30, 2013 10:52 AM
To: Bratcher, Mike, EMNRD; Jim Amos; Duncan Whitlock
Cc: Bob Asher
Subject: 1/2/2014 Sampling Notice

Importance: High

This is advance notice that I will be sampling at the following locations on 1/2/2014, starting around 9:30-10:00am.

Martha AIK Federal #4 (Release date 11/6/2013 – for TPH, BTEX, Chlorides)
Martha AIK Federal #1 Tin Horn (Release date 12/3/2013 – for TPH, BTEX, Chlorides)
Martha AIK Federal #1 Battery (Release date 12/26/2013 – for TPH, BTEX)

Thanks,

Amber Cannon

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799