# Bratcher, Mike, EMNRD

From:	Amber Cannon <acannon@yatespetroleum.com></acannon@yatespetroleum.com>
Sent:	Monday, February 24, 2014 9:12 AM
То:	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, 11

FRANK W. YATES

5.P. YATES



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105 BOUTH FOURTH BTREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (575) 748-1471 www.yatespetroleum.com

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 are, please see analytical report H400424.

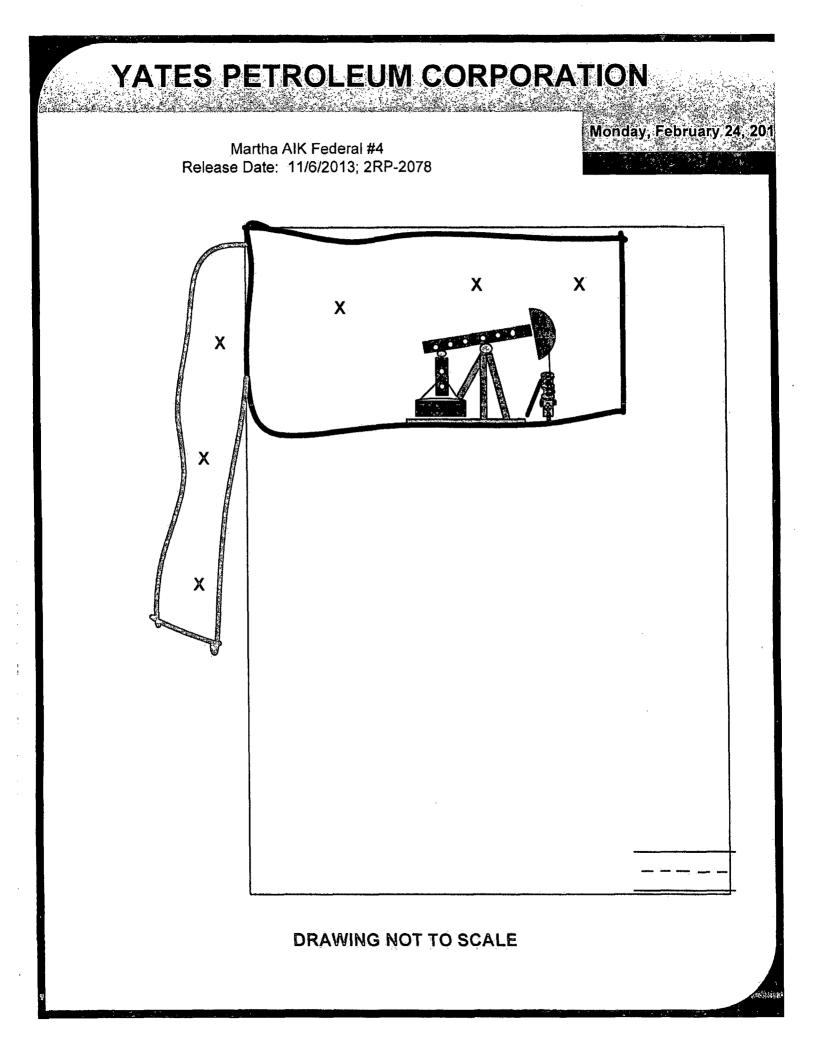
Based off of vertical delineation analytical results, Yates Petroleum Corporation proposes the following.

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.



# Martha AIK Federal #4

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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'	NĎ	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	Rélease 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



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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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene .Lab Director/Quality Manager

Page 1 of 9



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	Analyze	d By: MS	<u></u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2014	ŃD	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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO-C6-C10	<10.0	10.0	01/04/2014	ŃD	213	107	200	1:63	
DRO >C10-C28	37,4	10:0	01/04/2014	ND	212	106	200	3.24	
Surrogate: 1-Chloroöctane	<b>98.9</b>	% 65.2-14	0.						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 EEDERAL #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	Analyze	d 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 9	K <u>89,4-1,</u> 2	6						
TPH 8015M	'mg/	kg	Analyze	d By: ms				· · · · · · · · · · · · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogale; 1-Chlorooctane	98.6	65.2-14	ö'			· · · · ·	i		
Surrogate: 1-Chlorovctadecane	98.5	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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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 3' (H400013-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 <sup>1</sup>	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.	% 89.4-12	<u>6</u> .						
TPH 8015M	mg/	kġ	Analyze	d By: ms			<u></u>		
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	
Surrògate: 1-Chloröóctane	91:0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.3	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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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 80218	mg/	/kg	Analyze	d By: MS		······································			<u> </u>
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					

Surrogale: 4:Bromofluorobenzene (PIL 103 % 89.4-126

TPH 8015M	,mg,	/kg	Analyze	d By: ms	i				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% 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	% 65.2-14	10						

Surrogate: 1-Chlorooctadecane 96,4.% 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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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 Hensón
Project Location:	EDDY COUNTY, NM		

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

BTEX 8021B mg/kg				<u></u>				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/07/2014	ND	1.85	92:7	2.00	2.58	
<0.050	0.050	01/07/2014	ND	1,81	90.6	2:00	2,38	
<0.050	0.050	01/07/2014	ND	1.77	88.6	2,00	2.57	
<0.150	0.150	01/07/2014	ŅD	5.13	85.4	6.00	2.62	
<0.300	0.300	01/07/2014	ŇD					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed   <0.050	Result Reporting Limit Analyzed Method Blank.   <0.050	Result Reporting Limit Analyzed Method Blank BS   <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery   <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC   <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD   <0.050

Surrogate: 4-Bromofluorobenzene (PIE 103 % 89.4-126

88.5 %

63.6-154

TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	<b>B</b> S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2014	ND <sup>*</sup>	213	107	200	1.63	
DRO >C10-C28	<10.0	10.0	01/04/2014	ND	212	106	200	3.24	
Surrogate: 1-Chlorooctane	\$8.9	% 65.2-14	0						·····

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Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

3021B mg/kg								
Result	Reporting Limit	Analyzed.	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/07/2014	ND	1,85	92.7	2.00	2.58	
<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
<0.300	0.300	01/07/2014	.ND.					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed.   <0.050	Result Reporting Limit Analyzed. Method Blank.   <0.050	Result Reporting Limit Analyzed Method Blank BS   <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery   <0.050	Result Reporting Limit Analyzed. Method Blank BS % Recovery True Value QC   <0.050	Result Reporting Limit Analyzed. Method Blank BS % Recovery True Value QC RPD   <0.050

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

TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit.	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

63:6-154

Surrogate: 1-Chlörôoctadecane 86:2 %

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\*=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 SM4500CI-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

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		Yates Petroleum Corporatio	<u>n</u>					÷							_	•												·	-
	ompany Address:	105 South 4th Street			· · · ·				•		<del>.</del>						Pro	ject i	Loc:					ddy (			*****	*******	
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PHONE (575) 393-2326 \* 101 E. MARLAND \* HOBBS, NM 88240

January 09, 2014

AMBER CANNON YATES PETROLEUM CORPORATION 105.5 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 accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celez & Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 5



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 Nümber:	30-015-26724	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

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

Chloride, SM4500CI-B	, mg	/kg	Analyze	d 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	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	<b>B</b> S	% 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	Analyze	d 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	Analyze	diBy: AP				· · · · · · · · · · · · · · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovéry	True Value QC	RPD	Qualifier
Chloride	3960	16.0	01/08/2014	ND	416	104	400	3.77	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEXE NOTE: Listicity and Damages, Candral's Rability and clent's entitivity. Tempor for any claim. ansing, whicher based in "contraint; or fort, shall be "limited to the amount paid by clent. for "analyses. All claims, including those for negligence and any other cause whiteoeve shall be decimed waved unless made in writing and received by Contraint thiny (20) clays, after completion of the applicable service. In "no event shall, Cardinal be liable for incidential or consequential, damages, including, whom firstillion, business, how of use, or loss of profile incurred by claims, this publicable; affiliates; or succession and in white approximate allow to the services hereunder by Candinal, regardless of whether such chains based una mar of the biometalistic restriction or otherwise. Received restrict restriction of contraining out of an interview classification on the service static restriction of characteristic of contraining and the biometal test classifier of contraining out of an interview classifier restrict restriction to the service static restriction of contraining out of the biometal classifier of contraining out of the biometal static restriction of the service static restriction of the service static restriction of contraining out of the biometal static restriction of the service static restriction of contraining out of the biometal static restriction of the service of the service static restriction of the service of the service static restriction of the service static restriction of the service static restriction of the service of the service static restriction of the service of the serv

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	

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

Chioride, SM4500CI-B	mg		Analyze	d By: AP			i		<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	01/08/2014	ŇD	416	104	400	3.77	

#### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability, and chern's, exclusive remedy for any claim ansing, whether based in contract shall be limited to the amount paid by cleint for analyses. All claims, including those for negligence and any other tenses whatsoering shall be ideemed waterd unless made. In writing and received by Cardinal within thing (30) days after completion of the applicable, service. In no event that Cardinal be table to Incidental or consequential damages, including, within thing (30) days after completion of the applicable, service. In no event that cardinal be table, to Incidental or consequential damages, including, writing and received by Cardinal within thing (30) days after completion of the applicable, service. In no event that cardinal be table, to Incidental or consequential damages, including, writing approximation, business the services hereunder by Cardinal, regardless of whether event cannot be to be serviced to the performance of the services hereunder by Cardinal, regardless of whether event claims based upon any of the above stated reasons or otherwise. Results relate only to the services and some for the performance 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 Laborstories.

Celeg & Kare

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
<b>*</b> *	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
<u>~</u>	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

PLEASE MOTE: Liablety and Damages. Candinal's labelity and charat's exclusive remedy for any claim antiana, whether based in contract.or text, shall be limited to the anount paid by client for analyses. All claims, including those for neglegone and any contract.or text, shall be limited to the anount paid by client for analyses. All claims, including those for neglegone and any contract.or text, shall be limited to the applicable service. In no event shall be limited in consequential damages, including, wobout labelitana, buttering to see for limited to the software service. In no event shall be limited to the software service in the limited or consequential damages, including, wobout labelitana, buttering, including, to service shall be service in the software service in the software service in the limited or tools candinal, regardless of whether such claims is based upon any of the above stated regions or observe stated regions or observe stated regions or observe stated regions of other software services and services in the service in the service is the service of the service hereinder by Candinal, regardless of whether such claims is based upon any of the above stated regions or observe stated regions or observe stated regions or observe stated regions of other softwares.

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

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PHONE (575) 393-2326 \* 101 E: MARLAND \* HOBBS, NM 88240

February 14, 2014

AMBER CANNON YATES PETROLEUM CORPORATION 105 S 4th Street Artésia, 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celez D. Keine

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	Sampling Date:	02/10/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	30-015-26724	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

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

Chloride, SM4500CI-B	-B mg/kg			d 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, SM4500CI-B	, SM4500CI-B mg/kg								
Analyte	Result	Reporting Limit.	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/14/2014	ND	415	104	400	3.92	

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

Chloride, SM4500CI-B	ing	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2014	ŃĎ	416	104	400	3,92	

#### Cardinal Laboratories:

\*=Accredited Analyte

PLEASE NOTE: Laberty and Damages. Candinal's laberty and chern's exclusive remody for any claim arising, whether based in contract or ton, shall be lamade to the amount paid by chern for analyses. (All claims, including those for negligence and any other, course whatsoever shall be lamade, in would be claim arising, whether based in contract or ton, shall be lamade to the amount paid by chern for analyses. (All claims, including those for negligence and any other, course whatsoever shall be deemed waved unless made in writing and received by Candinal within (biny, (20) days after completion of the applicable sortic, in no, every shall be for including to consequenceal damages, including, without initiation, business interruptions, lass of use, or loss of profits incurred by client, its subschales, affaites or successors arising out of or related to the performance of the services hereunder by Clindhal, regardless 'or which in such claims is based upon any of the above stated response or otherwise. Results relate only to the samples identified above. This report shall got be reproduced except in full with written approval of Cardinal Laboratories.

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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## **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.
2	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:

PLEASE NOTE: Labeley and Damages. Carding's labelity and cherit's anticipite remines for any claim arising, whether based in contract or tort, shall be immed to the amount paid by cherit for analyses. "At claims, including those for negligence and any other concentration or tort, shall be immed to the amount paid by cherit for analyses. "At claims, including those for negligence and any other concentration or tort, shall be immed to the applicable scheet." In from event that Declama be isole to including those for negligence and bother concentration of the applicable scheet. "In from event that Declama be isole to including those for negligence and including those scheet, instances with the applicable scheet." In from event that Declama be isole to including those for negligence and including those is a scheet of the applicable scheet." In from event that Declama be isole to including those is the scheet of the applicable scheet. The spote of the applicable is the scheet of the scheet of the scheet of the scheet of the applicable is the scheet of t

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager

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# Bratcher, Mike, EMNRD

From: Sent: To: Cc: Subject:	- 	Amber Cannon <acannon@yatespetroleum.com> Monday, December 30, 2013 10:52 AM Bratcher, Mike, EMNRD; Jim Amos; Duncan Whitlock Bob Asher 1/2/2014 Sampling Notice</acannon@yatespetroleum.com>
Importance:	3 -1 -	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