

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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July 21, 2014

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

RE: Martha AIK Federal #6 Tin Horn
30-015-26960
Section 11, T22S-R31E
Eddy County, New Mexico

Mr. Bratcher,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the two releases that occurred at the above mentioned facility on June 12, 2013 (2RP-1697) and August 13, 2013 (2RP-1856). The June 12, 2013 release was 40 barrels produced water with no produced water recovered. The August 13, 2013 release was 150 barrels of produced water with 130 barrels of produced water recovered.

Initial TPH/BTEX and Chloride delineation samples were taken on 7/11/2013 for the area designated as M6 on the sample diagram. They were sent to a NMOCD approved facility and are attached for your review. Analytical reports showed that TPH/BTEX were non-detectable. There were elevated levels of chlorides found at 1' and 2' below ground level. Yates excavated approximately 2.5' from this area to remove the chloride contaminants. Yates then backfilled this area with clean, like soils. Yates personnel visited the release area on July 14, 2014 and vegetation is starting to naturally come back in this previously excavated area. Other than re-seeding this area (to promote more growth than what is starting to come in naturally), Yates proposes no more work for this area of the release.

Chloride samples were also taken on 8/22/2013, 10/2/2013, and 1/17/2014 for the impacted areas around the tin horn and were sent to a NMOCD approved facility. Analytical reports are attached for your review.

Yates needs to complete work for the part of the release that occurred around the tin horn. Yates proposes to do the following work around the tin horns. Note that there are gas and water lines that go through this part of the release, as a result safety for contractors will be a top priority for the excavation of these sections of the release area.

1. Excavate 4' vertically from section TH2 and TH3. The proposed excavated area will be approximately 52' long and 56' feet wide. After this area has been excavated Yates will backfill the area with 2' of caliche and 2' of clean, like soils. Yates will then re-seed the area around the tin horn with the BLM Lesser Prairie Chicken seed mix.

2. We propose to not excavate from the lease road at this time due to the caliche road acting as a cap to prevent further leaching of chlorides. At Yates' visual inspection on 7/14/2014 no visible chlorides were seen on the road.

Yates would like to start this work no later than Monday, July 28, 2014.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at acannon@yatespetroleum.com.

Thank You,



Amber Cannon
Environmental Regulatory Agent
Yates Petroleum Corporation

Enclosure(s):

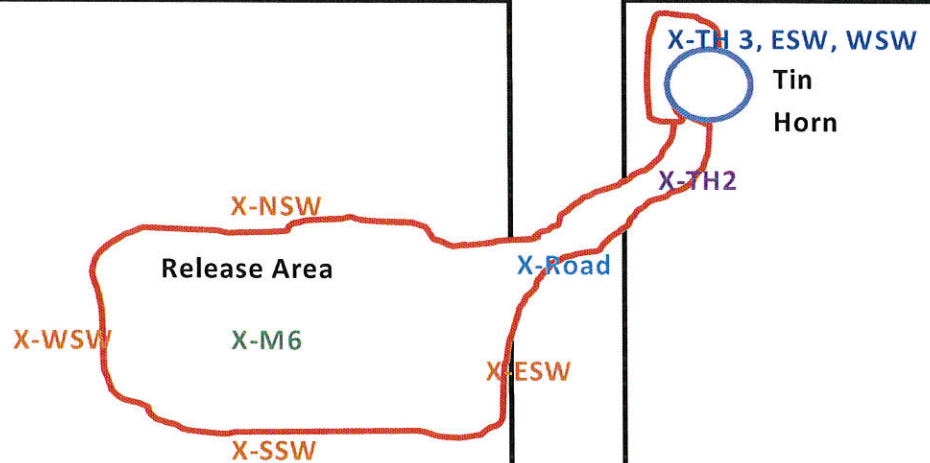
1. Site Diagram
2. Analytical Reports

cc: Duncan Whitlock, BLM – Carlsbad District Office



JACK WH

Martha AIK Federal #6 Location



X – M6-1, M6-2, M6-3, M6-4

X – Martha 6 TH Road 1, Road 2

X – Martha 6 TH 2-1, 2-2, 2-3, 2-4, 2-5, 2-6

X – Martha 6 Field NSW, WSW, SSW, ESW

X – Martha 6 TH 3-4, 3-5, 3-6, ESE, WSW



Martha AIK Federal #6 Tin Horn

30-015-26960

Section 11, T22S-R31E

Eddy County, NM

Prepared by Amber Cannon
Environmental Regulatory Agent

DRAWING NOT TO SCALE

Martha AIK Federal #6

Analytical Report- H301633	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
M6-1	Release Area	7/11/2013	Grab/Backhoe	1'	ND	ND	ND	ND	5,040
M6-2	Release Area	7/11/2013	Grab/Backhoe	2'	ND	ND	ND	ND	1,540
M6-3	Release Area	7/11/2013	Grab/Backhoe	3'	ND	ND	ND	ND	32
M6-4	Release Area	7/11/2013	Grab/Backhoe	4'	ND	ND	ND	ND	ND

Analytical Report- H302036	Sample Area	Sample Date	Sample Type	Depth	Chlorides
Martha 6 TH 2-1	Release Area	8/22/2013	Grab/Backhoe	1'	608
Martha 6 TH 2-2	Release Area	8/22/2013	Grab/Backhoe	2'	6,160
Martha 6 TH 2-3	Release Area	8/22/2013	Grab/Backhoe	3'	240
Martha 6 TH 2-4	Release Area	8/22/2013	Grab/Backhoe	4'	448
Martha 6 TH 2-5	Release Area	8/22/2013	Grab/Backhoe	5'	352
Martha 6 TH 2-6	Release Area	8/22/2013	Grab/Backhoe	6'	416
Martha 6 TH 3-4	Release Area	8/22/2013	Grab/Backhoe	4'	10,300
Martha 6 TH 3-5	Release Area	8/22/2013	Grab/Backhoe	5'	8,400
Martha 6 TH 3-6	Release Area	8/22/2013	Grab/Backhoe	6'	16,700
Martha 6 TH ESW	Release Area	8/22/2013	Grab/Backhoe	Sidewall	912
Martha 6 TH WSW	Release Area	8/22/2013	Grab/Backhoe	Sidewall	9,330
Martha 6 TH Road 1	Release Area	8/22/2013	Grab/Backhoe	1'	2,320
Martha 6 TH Road 2	Release Area	8/22/2013	Grab/Backhoe	2'	3,000
Martha 6 Field NSW	Release Area	8/22/2013	Grab/Composite	Sidewall	1,090
Martha 6 Field WSW	Release Area	8/22/2013	Grab/Composite	Sidewall	544
Martha 6 Field SSW	Release Area	8/22/2013	Grab/Composite	Sidewall	448
Martha 6 Field ESW	Release Area	8/22/2013	Grab/Composite	Sidewall	1,170

Analytical Report- H302421	Sample Area	Sample Date	Sample Type	Depth	Chlorides
Martha 6 TH 3-7	Release Area	10/2/2013	Grab/Backhoe	7'	20,800
Martha 6 TH 3-8	Release Area	10/2/2013	Grab/Backhoe	8'	10,000
Martha 6 TH Inner	Release Area	10/2/2013	Grab/Backhoe	Sidewall	368
Martha 6 TH Outer	Release Area	10/2/2013	Grab/Backhoe	Sidewall	3,360

Analytical Report- H400166	Sample Area	Sample Date	Sample Type	Depth	Chlorides
Mar 6 TH 3-10	Release Area	1/17/2014	Grab/Core Rig	10'	3,800
Mar 6 TH 3-15	Release Area	1/17/2014	Grab/Core Rig	15'	4,720
Mar 6 TH 3-20	Release Area	1/17/2014	Grab/Core Rig	20'	1,260
Mar 6 TH 3-25	Release Area	1/17/2014	Grab/Core Rig	25'	208

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 448', Section 16-22S-31E, per NMOSE).

All results are ppm.Chlorides for documentation.

Released: 40 B/PW; Recovered: 0 B/PW. Release Date: 6/12/2013; 2RP-1697

Released: 150 B/PW; Recovered: 130 B/PW. Release Date: 8/13/2013; 2RP-1856

July 19, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #6 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 07/12/13 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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,



Mike Snyder

Organic Supervisor

Analytical Results For:

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #6 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26960	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: M6-1 (H301633-01)

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8	
Toluene*	<0.050	0.050	07/16/2013	ND	2.18	109	2.00	14.6	
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2	
Total Xylenes*	<0.150	0.150	07/16/2013	ND	6.53	109	6.00	13.9	
Total BTX	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	5040	16.0	07/16/2013	ND	416	104	400	3.92		

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	07/15/2013	ND	200	100	200	8.69		
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34		

Surrogate: 1-Chlorooctane 86.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.5 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #6 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26960	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: M6-2 (H301633-02)

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8	
Toluene*	<0.050	0.050	07/16/2013	ND	2.18	109	2.00	14.6	
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2	
Total Xylenes*	<0.150	0.150	07/16/2013	ND	6.53	109	6.00	13.9	
Total BTX	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	1540	16.0	07/16/2013	ND	416	104	400	3.92	

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	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

Surrogate: 1-Chlorooctane 85.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.9 % 63.6-154

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*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #6 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26960	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: M6-3 (H301633-03)

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8	
Toluene*	<0.050	0.050	07/16/2013	ND	2.18	109	2.00	14.6	
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2	
Total Xylenes*	<0.150	0.150	07/16/2013	ND	6.53	109	6.00	13.9	
Total BTX	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	32.0	16.0	07/16/2013	ND	416	104	400	3.92		

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	07/15/2013	ND	200	100	200	8.69		
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34		

Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.0 % 63.6-154

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*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/12/2013	Sampling Date:	07/11/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #6 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26960	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: M6-4 (H301633-04)

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8	
Toluene*	<0.050	0.050	07/16/2013	ND	2.18	109	2.00	14.6	
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2	
Total Xylenes*	<0.150	0.150	07/16/2013	ND	6.53	109	6.00	13.9	
Total BTX	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 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	<16.0	16.0	07/16/2013	ND	416	104	400	3.92	

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	07/15/2013	ND	200	100	200	8.69	
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200	5.34	

Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.0 % 63.6-154

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*=Accredited Analyte

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Mike Snyder, Organic Supervisor

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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Mike Snyder, Organic Supervisor



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

August 29, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

Martha Aik Federal #6 TH
RE: ~~DOLORES AIL FEDERAL #1 (TIN HORN)~~

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MARTHA 6 TH 2-1 (H302036-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 TH 2-2 (H302036-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 TH 2-3 (H302036-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 TH 2-4 (H302036-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/29/2013	ND	432	108	400	0.00	

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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MARTHA 6 TH 2-5 (H302036-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 TH 2-6 (H302036-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 TH 3-4 (H302036-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 TH 3-5 (H302036-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 TH 3-6 (H302036-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16700	16.0	08/29/2013	ND	432	108	400	0.00	

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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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MARTHA 6 TH ESW (H302036-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 TH WSW (H302036-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 TH ROAD 1 (H302036-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	08/29/2013	ND	432	108	400	0.00		

Sample ID: MARTHA 6 TH ROAD 2 (H302036-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 FIELD NSW (H302036-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/29/2013	ND	432	108	400	0.00	

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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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MARTHA 6 FIELD WSW (H302036-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 FIELD SSW (H302036-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 6 FIELD ESW (H302036-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	08/29/2013	ND	432	108	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

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Celey D. Keene, Lab Director/Quality Manager



ARDIAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 1 of 2

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-613-8799

Sampler Signature: Amber Cannon

Fax No: 575-748-4131

e-mail: acannon@yatespetroleum.com

Project Name: Martha Ark Fed #2014

Project #: 30-015-26547

Project Loc: Eddy County

PO #: 103-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: H302036

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	N ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Sol/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	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT			
1	Martha 6 TH 2-1	1'	1'	8/22/2013	11:00 AM		1										S														X	X		
2	Martha 6 TH 2-2	2'	2'	8/22/2013	11:05 AM		1										S															X	X	
3	Martha 6 TH 2-3	3'	3'	8/22/2013	11:07 AM		1										S															X	X	
4	Martha 6 TH 2-4	4'	4'	8/22/2013	11:09 AM		1										S															X	X	
5	Martha 6 TH 2-5	5'	5'	8/22/2013	11:11 AM		1										S															X	X	
6	Martha 6 TH 2-6	6'	6'	8/22/2013	11:13 AM		1										S															X	X	
7	Martha 6 TH 3-4	4'	4'	8/22/2013	11:18 AM		1										S															X	X	
8	Martha 6 TH 3-5	5'	5'	8/22/2013	11:20 AM		1										S															X	X	
9	Martha 6 TH 3-6	6'	6'	8/22/2013	11:22 AM		1										S															X	X	
10	Martha 6 TH ESW	2'	2'	8/22/2013	11:25 AM		1										S															X	X	
11	Martha 6 TH WSW	2'	2'	8/22/2013	11:30 AM		1										S																X	X
12	Martha 6 TH Road 1	1'	1'	8/22/2013	11:30 AM		1										S																X	X
13	Martha 6 TH Road 2	2'	2'	8/22/2013	11:32 AM		1										S																X	X
14	Martha 6 Field NSW	2'	2'	8/22/2013	8:30 AM		1										S																X	X

Special Instructions:

Requisitioned by: Amber Cannon Date: 8/22/13 Time: 12:45 Received by: Debi Henderson Date: 8/23/13 Time: 12:45

Requisitioned by: Amber Cannon Date: 8/22/13 Time: 12:45 Received by: Debi Henderson Date: 8/23/13 Time: 12:45

Requisitioned by: Amber Cannon Date: 8/22/13 Time: 12:45 Received by: Debi Henderson Date: 8/23/13 Time: 12:45

Temperature Upon Receipt: 54 °C

Laboratory Comments: Sample Containers intact? VOCs Free of Headspace? Labels on containers? Custody seals on containers? Custody seals on cooler(s)? Sample Hand Delivered by Sampler/Client Rep.? by Courier? UPS DHL FedEx Lone Star

Analyze For: TOLP: TOTAL: 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 RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Standard TAT

October 10, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #6 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 10/07/13 13:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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:	10/07/2013	Sampling Date:	10/02/2013
Reported:	10/10/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #6 (TIN HORN)	Sampling Condition:	** (See Notes)
Project Number:	30-015-26960	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MARTHA 6 TH 3-7 (H302421-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	10/09/2013	ND	416	104	400	0.00	

Sample ID: MARTHA 6 TH 3-8 (H302421-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	10/09/2013	ND	416	104	400	0.00	

Sample ID: MARTHA 6 TH INNER (H302421-03)

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	10/09/2013	ND	416	104	400	0.00	

Sample ID: MARTHA 6 TH OUTER (H302421-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	10/09/2013	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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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

January 23, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #6 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 01/20/14 12:15.

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:	01/20/2014	Sampling Date:	01/17/2014
Reported:	01/23/2014	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #6 (TIN HORN)	Sampling Condition:	** (See Notes)
Project Number:	30-015-26960	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MAR 6 TH 3-10 (H400166-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	01/23/2014	ND	416	104	400	0.00	

Sample ID: MAR 6 TH 3-15 (H400166-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	01/23/2014	ND	416	104	400	0.00	

Sample ID: MAR 6 TH 3-20 (H400166-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	01/23/2014	ND	416	104	400	0.00	

Sample ID: MAR 6 TH 3-25 (H400166-04)

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	01/23/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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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 Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

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

Sampler Signature: Amber Cannon

Fax No: 575-748-4131
e-mail: acannon@yatespetroleum.com

Project Name: Martha Aik Federal #6 (Tin Horn)

Project #: 30-015-26960

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

lab use only)

ORDER #: H400166

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Sol/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015

TPH: 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

N.O.R.M.

Chlorides

SAR

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

ANALYZE FOR:

TCLP:

TOTAL:

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date

Date

Date

Received by:

Received by:

Received by:

Date

Date

Date

Time

Time

Time

Laboratory Comments:

Sample Containers Intact?

VOGs 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: 22.3 °C

4411