

MARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



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

JOHN A. YATES
CHAIRMAN EMERITUS

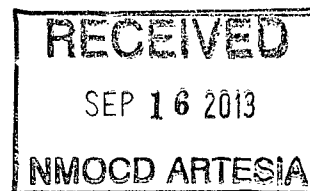
JOHN A. YATES JR.
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EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 11, 2013

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



RE: Martha AIK Federal #1 Tin Horn
30-015-26549
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 release that occurred at the above mentioned facility on June 7, 2013. The release was 250 barrels of produced water and 1 barrel of oil, with no amounts recovered.

Initial TPH/BTEX and Chloride delineation samples were taken and were sent to a NMOCD approved facility. Analytical results and a site diagram (not to scale) are attached for your review. The release area was split and sampled in three separate sections (MT1, MT2, and MTH3). Yates Petroleum then took samples at points North, West, East and South where we felt the release stopped in all directions, these are represented by samples NW, WW, EW, and SW.

Yates Petroleum Corporation proposes to do the following work:

1. Section MT1: Vertically: Excavate 3'. Horizontally: Excavate 15' to the west and 15' to the east of the buried poly line. This sections starts at the tin horn and goes approximately 50' to the south.
2. Section MT2: Vertically: Excavate 2'. Horizontally: Excavate 15' to the west and 15' to the east of the buried poly line. This section starts 50' south of the tin horn and goes approximately another 50' to a two track road.
3. MTH3: No excavation would occur in this area as chloride levels are low.

Due to an Agave gas line being buried in the same trench as Yates' water line, Yates will have to backfill each section as we excavate. Agave will not let us leave an excavation around their line open for an extended period of time.

The impacted soils would be disposed of at a NMOCD approved facility. After excavation and disposal, the excavation would be backfilled with clean, like material. The site would then be added

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

to our seeding list for 2014, as Yates Petroleum has already completed seeding for 2013. The area would then be monitored for re-vegetation.

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

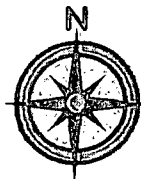
Thank You,

A handwritten signature in black ink that reads "Amber Cannon". The script is cursive and fluid.

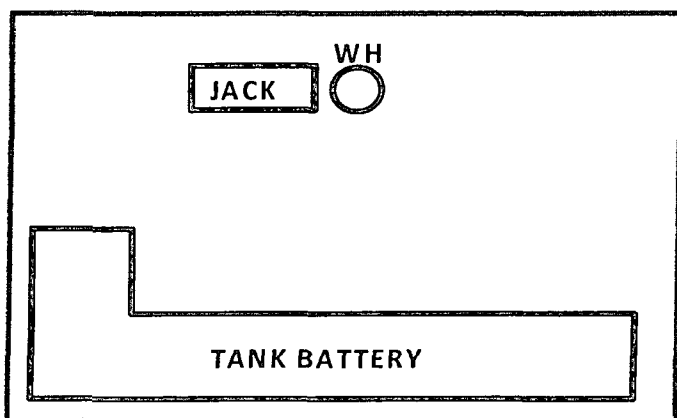
Amber Cannon
Environmental Regulatory Agent
Yates Petroleum Corporation

Enclosure(s): 3

cc: Jim Amos, BLM -- Carlsbad District Office



Martha AIK Federal #1 Location

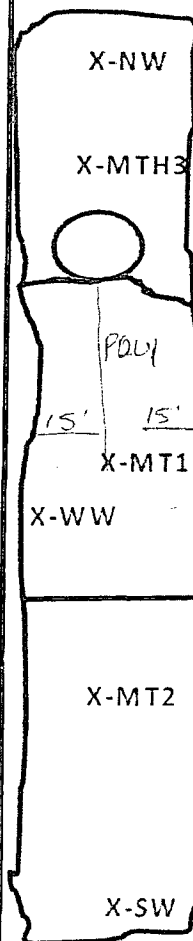


X - MT1 1, 2, 3, 4, 5, 6

X - MT2 1, 2, 3, 4, 5, 6

X - MT3 1, 2, 3, 4

X - Martha 1 TH NW, EW Inner, EW Outer, WW Inner, WW Outer, SW



Tin
Horn

X-EW

Release
Area

Martha AIK Federal #1 Tin Horn

30-015-26549

Section 11, T22S-R31E

Eddy County, NM



Prepared by Amber Cannon
Environmental Regulatory Agent

DRAWING NOT TO SCALE

Martha AIK Federal #1 Tin Horn

Cardinal Laboratories

Analytical Report-H301631	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
MT1-1	Release Area	7/11/2013	Grab/Backhoe	1'	ND	ND	ND	ND	2,360
MT1-2	Release Area	7/11/2013	Grab/Backhoe	2'	ND	ND	ND	ND	7,760
MT1-3	Release Area	7/11/2013	Grab/Backhoe	3'	ND	ND	ND	ND	2,560
MT1-4	Release Area	7/11/2013	Grab/Backhoe	4'	ND	ND	ND	ND	1,070
MT1-5	Release Area	7/11/2013	Grab/Backhoe	5'	ND	ND	ND	ND	448
MT1-6	Release Area	7/11/2013	Grab/Backhoe	6'	ND	ND	ND	ND	496
MT2-1	Release Area	7/11/2013	Grab/Backhoe	1'	ND	ND	ND	ND	6,880
MT2-2	Release Area	7/11/2013	Grab/Backhoe	2'	ND	ND	ND	ND	2,840
MT2-3	Release Area	7/11/2013	Grab/Backhoe	3'	ND	ND	ND	ND	496
MT2-4	Release Area	7/11/2013	Grab/Backhoe	4'	ND	ND	ND	ND	658
MT2-5	Release Area	7/11/2013	Grab/Backhoe	5'	ND	ND	ND	ND	672
MT2-6	Release Area	7/11/2013	Grab/Backhoe	6'	ND	ND	ND	ND	1,880

Analytical Report-H302035	Sample Area	Sample Date	Sample Type	Depth	Chlorides
Martha 1 TH 3-1	Release Area	8/22/2013	Grab/Backhoe	1'	416
Martha 1 TH 3-2	Release Area	8/22/2013	Grab/Backhoe	2'	304
Martha 1 TH 3-3	Release Area	8/22/2013	Grab/Backhoe	3'	656
Martha 1 TH 3-4	Release Area	8/22/2013	Grab/Backhoe	4'	1,790
Martha 1 TH NW	Release Area	8/22/2013	Grab/Backhoe		672
Martha 1 TH EW Inner	Release Area	8/22/2013	Grab/Backhoe		192
Martha 1 TH EW Outer	Release Area	8/22/2013	Grab/Backhoe		16
Martha 1 TH WW Inner	Release Area	8/22/2013	Grab/Backhoe		48
Martha 1 TH WW Outer	Release Area	8/22/2013	Grab/Backhoe		32
Martha 1 TH SW	Release Area	8/22/2013	Grab/Backhoe		304

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

All results are ppm.Chlorides for documentation.

Released: 250 B/PW, 1 B/O; Recovered: 0 B/PW, 0 B/O. Release Date: 6/7/2013

July 19, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 (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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 1-1 (H301631-01)

BTEx 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	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTEx	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 103 % 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	2360	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 88.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.5 % 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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 1-2 (H301631-02)

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	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	7760	16.0	07/16/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 90.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.1 % 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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 1-3 (H301631-03)

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	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	2560	16.0	07/16/2013	ND	400	100	400	0.00	

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

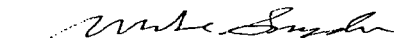
Surrogate: 1-Chlorooctane 89.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 1-4 (H301631-04)

BTEX 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	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTEX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	1070	16.0	07/16/2013	ND	400	100	400	0.00	

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

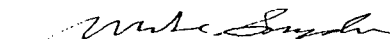
Surrogate: 1-Chlorooctane 92.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.3 % 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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 1-5 (H301631-05)

BTEX 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	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTEX	<0.300	0.300	07/15/2013	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	448	16.0	07/16/2013	ND	400	100	400	0.00	

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

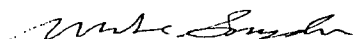
Surrogate: 1-Chlorooctane 89.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.7 % 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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 1-6 (H301631-06)

BTEx 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	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTEX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	496	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.9 % 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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 2-1 (H301631-07)

BTEX 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	07/15/2013	ND	2.17	108	2.00	2.05	
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23	
Total BTEX	<0.300	0.300	07/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	6880	16.0	07/16/2013	ND	400	100	400	0.00	

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

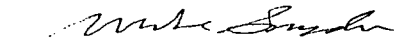
Surrogate: 1-Chlorooctane 85.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 2-2 (H301631-08)

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	07/15/2013	ND	2.17	108	2.00	2.05		
Toluene*	<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00		
Ethylbenzene*	<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06		
Total Xylenes*	<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2.23		
Total BTX	<0.300	0.300	07/15/2013	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	07/16/2013	ND	400	100	400	0.00		

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

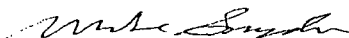
Surrogate: 1-Chlorooctane 91.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 2-3 (H301631-09)

BTEx 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 BTEX	<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	496	16.0	07/16/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 86.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 2-4 (H301631-10)

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	658	16.0	07/16/2013	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.0 % 63.6-154

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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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 2-5 (H301631-11)

BTEX 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 BTEX	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 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	672	16.0	07/16/2013	ND	400	100	400	0.00	

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

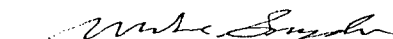
Surrogate: 1-Chlorooctane 83.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.7 % 63.6-154

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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 #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MT 2-6 (H301631-12)

BTEX 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 BTEX	<0.300	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	1880	16.0	07/16/2013	ND	400	100	400	0.00	

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

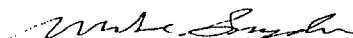
Surrogate: 1-Chlorooctane 91.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

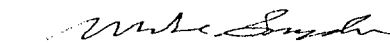
Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 15 of 15

Project Manager: Amber Cannon

Project Name: Martha AIK Federal #1 (Tin Horn)

Company Name: Yates Petroleum Corporation

Project #: 30-015-26549

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 103-2020

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

(lab use only)

ORDER #: H301631

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

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? ☒ Y ☐ N
VOCs Free of Headspace? ☒ Y ☐ N
Labels on container(s) ☒ Y ☐ N
Custody seals on container(s) ☒ Y ☐ N
Custody seals on cooler(s) ☒ Y ☐ N
Sample Hand Delivered ☒ Y ☐ N
by Sampler/Client Rep. ? ☒ Y ☐ N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 1.6 °C

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by ELOT:

Date

Time



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

RE: MARTHA AIK FEDERAL # THFIELD

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,

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

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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL #1 FIELD	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MARTHA 1 TH 3-1 (H302035-01)

Chloride, SM4500CI-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	448	112	400	3.64	

Sample ID: MARTHA 1 TH 3-2 (H302035-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/29/2013	ND	448	112	400	3.64	

Sample ID: MARTHA 1 TH 3-3 (H302035-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	08/29/2013	ND	432	108	400	0.00	

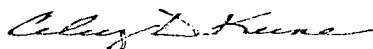
Sample ID: MARTHA 1 TH 3-4 (H302035-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	08/29/2013	ND	432	108	400	0.00	

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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: 08/23/2013
 Reported: 08/29/2013
 Project Name: MARTHA AIK FEDERAL #1 FIELD
 Project Number: 30-015-26549
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/22/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MARTHA 1 TH NW (H302035-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 1 TH EW INNER (H302035-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/29/2013	ND	432	108	400	0.00	

Sample ID: MARTHA 1 TH EW OUTER (H302035-07)

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

Sample ID: MARTHA 1 TH WW INNER (H302035-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/29/2013	ND	432	108	400	0.00	

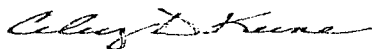
Sample ID: MARTHA 1 TH WW OUTER (H302035-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	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:	MARTHA AIK FEDERAL #1 FIELD	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

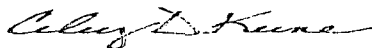
Sample ID: MARTHA 1 TH SW (H302035-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/29/2013	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

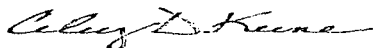
Notes and Definitions

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



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 #1 Field

Project #: 30-015-26549

Project Loc: Eddy County

PO #: 103-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

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(lab. use only)

ORDER #: H302035

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Petroleum Specify Other	TPH: 418.1 8015M 8015E	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / DEC	Metals: As Ag Ba Cd Cr Pb Hg S	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8280	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT			
1	Martha 1 TH 3-1	1'	1'	8/22/2013	1:30 PM		1									S																		X	X	
2	Martha 1 TH 3-2	2'	2'	8/22/2013	1:32 PM		1									S																		X	X	
3	Martha 1 TH 3-3	3'	3'	8/22/2013	1:34 PM		1									S																		X	X	
4	Martha 1 TH 3-4	4'	4'	8/22/2013	1:36 PM		1									S																		X	X	
5	Martha 1 TH NW	2'	2'	8/22/2013	1:32 PM		1									S																		X	X	
6	Martha 1 TH EW Inner	2'	2'	8/22/2013	1:34 PM		1									S																		X	X	
7	Martha 1 TH EW Outer	2'	2'	8/22/2013	1:36 PM		1									S																		X	X	
8	Martha 1 TH WW Inner	2'	2'	8/22/2013	1:38 PM		1									S																		X	X	
9	Martha 1 TH WW Outer	2'	2'	8/22/2013	1:40 PM		1									S																		X	X	
10	Martha 1 TH SW	2'	2'	8/22/2013	1:42 PM		1									S																		X	X	

Special Instructions:

Laboratory Comments:

Relinquished by:

Date

Time

Received by:

Date

Time

Sample Containers In tact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand Delivered?

by Sampler/Client Rep.?

by Courier?

UPS DHL FedEx Lone Star

Temperature Upon Receipt:

#54 5 °C