MARTIN YATES, III 1912-1985

FRANK W. YATES

5.P. YATES

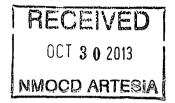


105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (575) 748-1471 www.yatespetroleum.com JOHN A. YATES CHAIRMAN EMERITUS

JOHN A. YATES JR. CHAIRMAN OF THE BOARD PRESIDENT

JOHN D. PERINI EXECUTIVE VICE PRESIDENT CHIEF FINANCIAL OFFICER

JAMES S. BROWN CHIEF OPERATING OFFICER



October 30, 2013

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

Re: Martha AIK Federal #1 Tin Horn 30-015-26549 Section 11, T22S-R31E Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on June 7, 2013 (2RP-1692).

On October 17 - 18, 2013 Yates had a contractor complete the following work as per our meeting with Yates, BLM and NMOCD personnel at Yates' offices on September 23, 2013.

- 1. Section 1 of release area: Starts at the tin horn and goes approximately 70' south of the tin horn. Vertically, Yates excavated approximately 3.5'. Horizontally Yates excavated approximately 15' west and 15' east of the buried flow lines.
- 2. Section 2 of release area: Starts approximately 70' south of the tin horn and goes to the two track road for the electric pole right of way. Vertically, Yates excavated approximately 2.5'. Horizontally Yates excavated approximately 15' west and 15' east of the buried flow lines.
- 3. Section 3 of the release area: This area is north of the tin horn. It was decided (in the meeting mentioned above) that no excavation was needed at this time.

All excavated materials were disposed of at a NMOCD approved disposal facility.

Please find attached a final C-141, site diagram (not to scale), and analytical reports. Yates Petroleum Corporation requests closure based on sample delineation, excavation and prior approval by OCD personal of work proposal.

If you have any questions, please call me at 575-748-4111.

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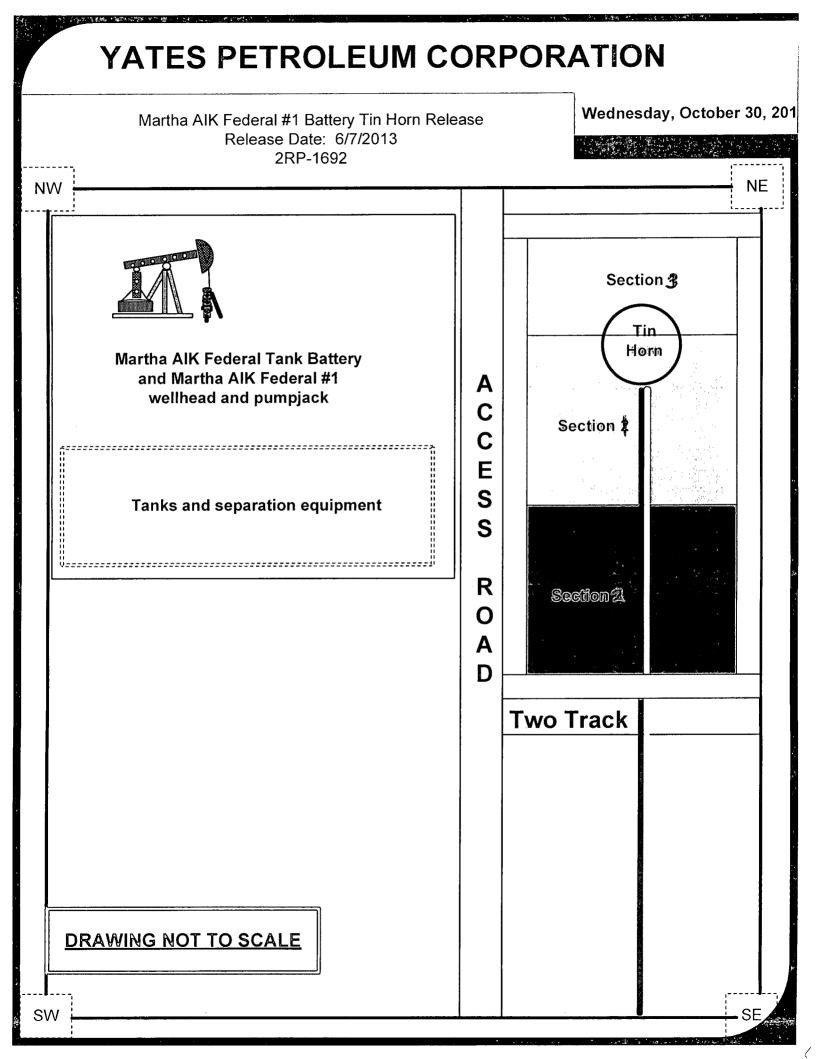
Thank you.

YATES PETROLEUM CORPORATION

Amber Cannon

Amber Cannon Environmental Regulatory Agent

/anc Enclosure(s)



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
<u>MT1-3</u>	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. 2RP-1692



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/ga/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,

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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 1-1 (H301631-01)

BTEX 8021B	mg,	/kg	Analyz	ed 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 (PIL	103 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP				<u> </u>	
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	
ТРН 8015М	mg/	kg	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	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	1						

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 1-2 (H301631-02)

mg/	'kg	Analyze	d By: DW					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/15/2013	ND	2.17	108	2.00	2.05	
<0.050	0.050	07/15/2013	ND	2.07	104	2.00	2.00	
<0.050	0.050	07/15/2013	ND	2.12	106	2.00	2.06	
<0.150	0.150	07/15/2013	ND	6.35	106	6.00	2,23	
<0.300	0.300	07/15/2013	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

Chloride, SM4500Cl-B	mg/kg		Analyze	d 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		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	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-Chlorooctadecane 93.1% 63.6-154

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*=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

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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:	Jodí Henson
Project Location:	EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyz	ed 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 (PIL	105 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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/l	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	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	1						

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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		
FIUJECT LOCATION.	EDDT COONTT, NM		

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

BTEX 8021B	mg/	kg	Analyz	ed 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 (PIL	1049	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	
трн 8015м	mg/l	(g	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	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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Mike Snyder, Organic Supervisor



Analytical Results For:

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

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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	Analyze	ed By: DW			· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>
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 (PIL	104 %	% 89.4-12	6						
Chloride, SM4500CI-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	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	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

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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

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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	Analyz	ed By: DW	. <u></u>				
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 (PIL	105 %	6 89.4-12	6			<u> </u>	<u> </u>		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	
трн 8015м	mg/	(g	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	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 (505) 748-4635 Fax To:

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	Analyze	ed 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 (PIL	104 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	
трн 8015м	mg/l	kg	Analyze	d By: MS					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
GRO C6-C10	<10.0	10.0	07/15/2013	ND	200	100	200
DRO >C10-C28	<10.0	10.0	07/15/2013	ND	211	105	200
Surrogate: 1-Chlorooctane	85.0%	6 65.2-14	0				
Surrogate: 1-Chlorooctadecane	91.2%	6 63.6-15	4				

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RPD

8.69

5.34

Qualifier

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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 2-2 (H301631-08)

BTEX 8021B	mg,	/kg	Analyz	ed 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 (PIL	1049	% 89.4-12	6				<u></u>		
Chloride, SM4500Cl-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	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	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	4						

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Mike Snyder, Organic Supervisor

Page 9 of 15



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	Analyz	ed 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 (PIL	106 %	6 89.4-12	6	<i></i>					
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	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	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 %	6 65.2-140)					·	
Surrogate: 1-Chlorooctadecane	93.4%	63.6-154	t						

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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 2-4 (H301631-10)

BTEX 8021B	mg	/kg	Analyz	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 (PIL	106 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP			- <u></u>		
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	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	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: I-Chlorooctane	90.2 %	6 65.2-14()	<u> </u>					

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	Analyz	ed 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 (PIL	103 %	6 89.4-12	6						<u> </u>
Chloride, SM4500CI-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/l	«g	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	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:	Jodí Henson
Project Location:	EDDY COUNTY, NM		

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

BTEX 8021B	mg/	kg	Analyz	ed 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 (PIL	105 %	6 89.4-12	б	····· ····					
Chloride, SM4500CI-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/l	<g< td=""><td>Analyze</td><td>d By: MS</td><td></td><td></td><td></td><td></td><td></td></g<>	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	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	!						

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Mike Snyder, Organic Supervisor



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

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 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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		nd, Hobbs, NM 88	3240		(505) 393-2326 F	AX (505) 393-2	476					÷																	
	Project Manager:	Amber Cannon														<u>.</u>	Pro	oject	Nam	ie:		Mar	tha /	<u>AIK</u>	Fed	leral	<u> #1</u>	(Tin	Hor	<u>n)</u>
	Company Name	Yates Petroleum	Corporation.							<u></u>			<u> </u>			_		Pre	oject	#:				30)-01	5-26	<u>654</u>	9		
	Company Address:	105 South 4th S	treet				· ·										· : F	Proje	ct Lo			÷		Ē	ddy		unty	1		_
	City/State/Zip:	Artesia, NM 88	210		·						•		· .	• •					PO	#:					10:	3-20	20			
	Telephone No:	575 - 748-4111 o		00			Fax No:		676	748	4131	•				_	Damas	•		-	<u>_</u>	Stand	الم سعا						7.10	
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RDEF	x#: H3016	3							_[Pr	eserva	ation 8	#of	Conta	iners		Matrix			-				+		$\left \right $				18, 72 h
use only)			:	Depth	pth	pled	pied		ntainers						ita A	/ater SL=Sludge	ater S≖Soll/Solld la Sraclfv Other		05 TX 1006	Mg. Na, K)	Anlons (Cl, SO4, Alkalinity)	SAR / ESP / CEC	j ba va vi runy		BTEX 8021B/5030 or BTEX 8260		-			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
LAB # (lab	FIE			Beginning	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	lce	HNO3	HCI H.SO	NaOH	Na ₂ S ₂ O ₃	None	Ouner (Specury, DW=Drinking Wate	GW = Groundwa	TPH: 418.1	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anlons (Cl, S	SAR / ESP / CEC	Metals: As Ag Volatiles	Semivolatiles	BTEX 8021B	RCI	N.O.R.M.	Chlorides	JAIN	RUSH TAT
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	- MT1-2			2'	2'	7/11/2013	10:38 AM	_		X			+		Ľ-		S	<u> </u>	:				_ _		x	4	Ŀ	x		╇
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24 1000 1	MT1-5 MT1-6	;		5' 6'	5' 6'	7/11/2013	10:44 AM 10:46 AM	┼─		X X	-+	-+-		<u> </u>		+	<u> </u>			-	$\left - \right $	-	 	+-			$\left\{ + \right\}$	X	+-	╀
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August 29, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1FHELD

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 accredited 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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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:	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, SM4500Cl-B	Analyze	d 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, SM4500Cl-B	mg/kg		Analyzed By: DW	<u>.</u>				
Analyte	Result Rep	orting Limit A	nalyzed 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	Analyze	zed 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	Analyze	d 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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Celey D. Keine

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 NW (H302035-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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, SM4500CI-B	mg,	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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. Kune

Celey D. Keene, Lab Director/Quality Manager



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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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013 TH	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	Analyze	d 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 Di Keine

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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PLEASE NOTE: Uability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the aniount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6

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Bratcher, Mike, EMNRD

From: Sent: To: Subject: Attachments: Amber Cannon <ACannon@yatespetroleum.com> Wednesday, October 30, 2013 4:28 PM Bratcher, Mike, EMNRD Martha AIK Federal #1 Tin Horn Final C-141 MarthaAIKFederal1TH_C141_060713 Final.pdf

Mike,

Attached is the Final C-141 for the Martha AIK Federal #1 tin horn release.

Thanks,

Amber Cannon

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

N 1							ĺ		CEIV	ED (
District 1 1625 N. French District II	Dr., Hobbs,	NM 88240		State Energy Mine		New Mex		. 00	T 3 0 20	13 L	Form C-141 Revised October 10, 2003			
1301 W. Grand	Avenue, Art	tesia, NM 8821)	0.7			1							
District III 1000 Rio Brazo	s Road, Azte	c, NM 87410		+		rvation Di h St. Franc		NMOC	D ART	ESpisinic	Copies to appropriate t Office in accordance with Rule 116 on back			
District IV 1220 S. St. Fran	ncis Dr., Sant	a Fe, NM 8750	5			e, NM 875					side of form			
			Rel		ation and Corrective Action									
						TOR	51100011	e meno		al Report	Final Report			
Name of Co				OGRID Numbe	er	Contact								
<u>Yates</u> Petro Address	leum Corp	oration		25575		Amber Can Telephone l								
$105 \text{ S}.4^{\text{TH}}$	Street					575-748-14								
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Unit Letter P	Section 11	Township 22S	Range 31E	Feet from the N 330'		'South Line South	Feet from t 430'	the East	West Line East	County Eddy				
L.,	I	I	l	Latitude 32.399		Longitude	e 103.7408	36	· •• ••••					
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was Immedia	ate Notice C		Yes 🗌	No 🗌 Not Requ	ired	1 · · · ·	ther/NMOCI	D II						
By Whom? Robert Asher	/Yates Petr	oleum Corpor	ation			Date and H 6/7/2013; A								
Was a Water				N		If YES, Vo	lume Impact	ing the Wa	tercourse.					
	irse was Im	pacted, Descri	Yes 🛛 bc Fully.*			N/A			·					
N/A Describe Cau	sc of Proble	em and Remed	lial Actior	Taken.*										
A water trans	fer line east	of the battery	at the tin	horn ruptured.										
An approxim	ate area of (lease occu	rred south from the t							oreman was notified			
				ew will be called to out a delineation same							osed of at an to Ground Water:			
>100' (appro	ximately 1	50', Section 1	1, T22S-I	31E, per Trend M	ap), '	Wellhead Pr	otection Are	a: No, Dis	tance to Sui	face Wate				
				ests closure, please s is true and complete							IOCD rules and			
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should their o	perations ha	ave failed to a	dequately	investigate and reme	diate	e contaminatio	on that pose a	a threat to g	ground water	, surface w	ater, human health			
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	\wedge	0					OIL CO	ONSERV	ATION	DIVISI	<u>NC</u>			
Signature:	Imbe	s Cann	m											
Printed Name	: Amber Ca	nnon			A	Approved by	District Supe	rvisor:						
Title: Environ	mental Reg	ulatory Agent			A	Approval Date	;		Expiration	Date:				
E-mail Addre	ss: acannon	@yatespetrole	um.com			Conditions of	Approval:			Attached				
Date: Wednes	day, Octobe	er 30, 2013	Ph	one: 575-748-4111	111 2RP-1692									

* Attach Additional Sheets If Necessary