

FRANK W. YATES

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www.vatespetroleum.com

February 25, 2014

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

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

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

Mr. Bratcher and Mr. Whitlock,



SEE ATTACHED FOR CONDITIONS OF APPROVAL

SUBJECT TO LIKE APPROVAL BY STATE

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 April 18, 2013 (2RP-1631) and April 27, 2013 (2RP-1643). The April 18, 2013 release was 850 barrels produced water and 33 barrels of oil, with 650 barrels of produced water and 20 barrels of oil recovered. The April 27, 2013 release was 250 barrels of produced water and 1 barrel of oil with no amounts recovered. Both releases occurred in the field to the south of the battery and inside the unlined bermed battery. After both releases Yates had excavated the visibly impacted soils, approximately 1'-2' from surface level in the field south of the battery, areas where the releases pooled had more soils excavated. Yates also excavated soils from within the battery to the extent that was practicable for safety reasons. All soils excavated were disposed of at a NMOCD approved facility.

Initial TPH/BTEX and Chloride delineation samples were taken and were sent to a NMOCD approved facility. The release area was split and sampled in four separate sections MB, MF1, MF2, and MF3, please see analytical report H301097. Analytical results in section MB were elevated, but due to safety and practicability reasons Yates could not complete further vertical delineation within this area. Analytical results also showed elevated chloride levels in the field to the south of the battery so Yates did further vertical delineation in sections MF1, MF2, and MF3, please see analytical report H302034. These analytical results still showed elevated chloride levels in the field and Yates was asked by NMOCD and BLM to complete further vertical delineation. At a meeting on September 23, 2013, NMOCD and BLM agreed that Yates could just do one sample point closest to section MF3. This further vertical delineation was completed by a core rig and the sample point was labeled MF4, please see analytical report H400167.

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 Based off of previous conversations with NMOCD and BLM, complete vertical delineation analytical results, and depth to ground water, Yates Petroleum Corporation proposes to leave all chloride impacted soils in place and use a natural caliche/top soil cap over the release area. Yates will create a cap over the entire release area with 2' of caliche and 2' of topsoil. The caliche would be packed as much as possible to create a good barrier over the chloride impacted soils. The 4' cap would allow a good root zone for the area to re-vegetate. Yates also feels that with this layer of caliche in the cap and other hard layers we encountered while completing vertical delineation sampling, it is unlikely that the chlorides left in place would reach groundwater that is greater than 100'. Due to the small amounts of rain the area sees, Yates also feels that the chlorides left in place would not be pushed further down and would therefore not reach groundwater.

When backfilling /creating the barrier over the release area, Yates will make sure the release area is above the surrounding surface levels to ensure that a pooling area is not created.

The site will be added to our seeding list for June 2014 and then monitored for re-vegetation.

If NMOCD or BLM has an objection to the proposed work, please respond with an email. If there are no objections from NMOCD or BLM, Yates would like to begin work no later than Tuesday, March 4, 2014.

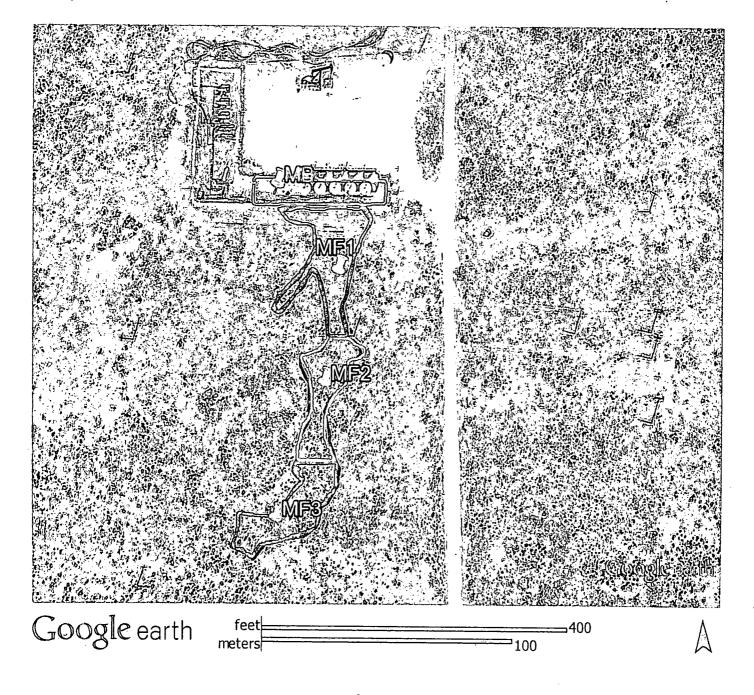
If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at <u>acannon@yatespetroleum.com</u>.

Thank You,

Amber Cannon Environmental Regulatory Agent Yates Petroleum Corporation

Enclosure(s)

Google earth feet meters Ø 100 Martha AIK Ederal - 1 Bestern GPS of release area: 4/18/2013 (ZRP-1631) 4/27/2013 (ZRP-1643)



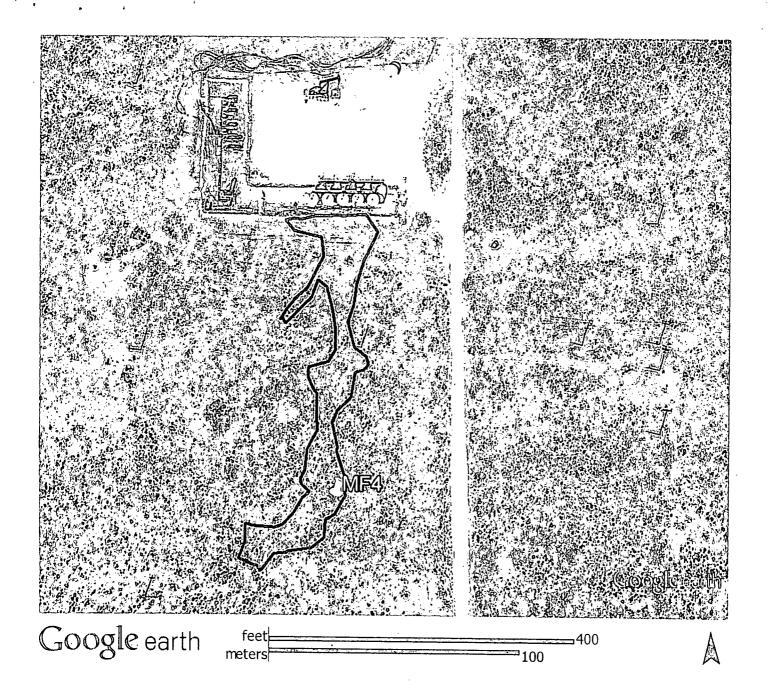
Martha AIK Federal # 1 Barbory

Sampling Event: 516/2013 H3010977

*NOTE: SAmpling Points shown are not to scalet

MF2 ÍME Googleearth feet 400 meters A '100 Martha AIK Ederal - 1 Battery Sampling Event: , 8 |22 |2013

NOTE: Sampling points shown are not to scale &



Martha Alk Ederal -1 Bartsry

Sampling Event: 1/17/2014 H400167

KNOTE: SAMPLING POINTS Shown are not to scale to

Martha AIK Federal #1

Cardinal Laboratories

Analytical Report- H301097	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
	Release Area	5/6/2013	Grab/Backhoe	1'	ND	ND	ND	ND	5,120
MB-2'	Release Area	5/6/2013	Grab/Backhoe	2'	ND	ND	ND	ND	8,240
MB-3'	Release Area	5/6/2013	Grab/Backhoe	3'	ND	ND	ND	ND	6,000
MB-4'	Release Area	5/6/2013	Grab/Backhoe	4'	ND	ND	ND	ND	6,000
MB-5'	Release Area	5/6/2013	Grab/Backhoe	5'	ND	ND	ND	ND	5,440
MB-6'	Release Area	5/6/2013	Grab/Backhoe	6'	ND	ND	ND	ND	6,080
MF1-1'	Release Area	5/6/2013	Composite/Backhoe	1'	ND	ND	28.3	28.3	5,840
MF1-2'	Release Area	5/6/2013	Composite/Backhoe	2'	ND	ND	41.1	41.1	5,760
MF1-3'	Release Area	5/6/2013	Composite/Backhoe	3'	ND	ND	ND	ND	7,520
MF1-4'	Release Area	5/6/2013	Composite/Backhoe	4'	ND	ND	ND	ND	10,600
MF1-5'	Release Area	5/6/2013	Composite/Backhoe	5'	ND	ND	ND	ND	15,600
MF1-6'	Release Area	5/6/2013	Composite/Backhoe	6'	ND	ND	ND	ND	12,200
MF2-1'	Release Area	5/6/2013	Composite/Backhoe	1'	ND	ND	189	189	6,000
ME2:2'	Release Area	5/6/2013	Composite/Backhoe	2'	ND	ND	ND	ND	6,160
MF2-3'	Release Area	5/6/2013	Composite/Backhoe	3'	ND	ND	ND	ND	8,000
MF2-4'	Release Area	5/6/2013	Composite/Backhoe	4'	ND	ND	ND	ND	21,000
MF2-5'	Release Area	5/6/2013	Composite/Backhoe	5'	ND	ND	ND	ND	21,000
MF2-6'	Release Area	5/6/2013	Composite/Backhoe	6'	ND	ND	ND	ND	22,000
MF3-1'	Release Area	5/6/2013	Composite/Backhoe	1'	ND	ND	ND	ND	6,320
MF3-2'	Release Area	5/6/2013	Composite/Backhoe	2'	ND	NÐ	ND	ND	5,840
MF3-3'	Release Area	5/6/2013	Composite/Backhoe	3'	ND	ND	ND	ND	15,200
MF3-4'	Release Area	5/6/2013	Composite/Backhoe	4'	ND	ND	ND	ND	18,800
MF3-5'	Release Area	5/6/2013	Composite/Backhoe	5'	ND	ND	ND	ND	7,680
MF3-6'	Release Area	5/6/2013	Composite/Backhoe	6'	ND	ND	ND	ND	6,800

Analytical Report-					
H302034	Sample Area	Sample Date	Sample Type	Depth	Chlorides
MF1-7	Release Area	8/22/2013	Grab/Backhoe		6,240
MF1-8	Release Area	8/22/2013	Grab/Backhoe	8'	28;400
MF1-9	Release Area	8/22/2013	Grab/Backhoe	9,	30,800
MF1-10	Release Area	8/22/2013	Grab/Backhoe	10'	24,600
MF1-11	Release Area	8/22/2013	Grab/Backhoe	11'	14,600
MF1-12	Release Area	8/22/2013	Grab/Backhoe	12	11,800
MF2-7	Release Area	8/22/2013	Grab/Backhoe	7'	25,200
MF2-8	Release Area	8/22/2013	Grab/Backhoe	8'	22,200
MF2-9	Release Area	8/22/2013	Grab/Backhoe	9'	17,000
MF3-7	Release Area	8/22/2013	Grab/Backhoe	7'	23,200
MF3-8	Release Area	8/22/2013	Grab/Backhoe	8'	13,900
MF3-9	Release Area	8/22/2013	Grab/Backhoe	9'	28,400

Analytical Report- H400167	Sample Area	Sample Date	Sample Type	Depth	Chlorides
MF4-10	Release Area	1/17/2014	Core Rig Grab	10'	16;400
MF4-15	Release Area	1/17/2014	Core Rig Grab	15'	544
MF4-20	Release Area	1/17/2014	Core Rig Grab	20'	224

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: 850 B/PW, 33 B/O; Recovered: 650 B/PW, 20 B/O. Release Date: 4/18/2013 (2RP-1631) Released: 250 B/PW, 1 B/O; Recovered: 0 B/PW, 0 B/O. Release Date: 4/27/2013 (2RP-1643)



May 13, 2013

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/08/13 11:00.

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 analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Herne

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF2 - 1' (H301097-01)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: DW			·····		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	05/10/2013	ND	432	108	400	0.00	

Sample ID: MF2 - 2' (H301097-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: DW

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	05/10/2013	ND	432	108	400	0.00	

Sample ID: MF2 - 3' (H301097-03)

Chloride, SM4500CI-B	hloride, SM4500CI-B mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	. RPD	Qualifier
Chloride	8000	16.0	05/10/2013	ND	432	108	400	0.00	

Sample ID: MF2 - 4' (H301097-04)

Chloride, SM4500Cl-B mg/kg		Analyzed By: DW					·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21000	16.0	05/10/2013	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF2 - 5' (H301097-05)

Chloride, SM4500Cl-B mg/kg			Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21000	16.0	05/10/2013	ND	432	108	400	0.00	

Sample ID: MF2 - 6' (H301097-06)

Chloride, SM4500Cl-B mg/kg			Analyzed By; DW						·····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	05/10/2013	ND	432	108	400	0.00	

Sample ID: MF3 - 1' (H301097-07)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: DW				· · · · · · · · · · · · · · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0 /	05/10/2013	ND	432	108	400	0.00	

Sample ID: MF3 - 2' (H301097-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	05/10/2013	ND	432	108	400	0.00	

Sample ID: MF3 - 3' (H301097-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0 ·	05/10/2013	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For;

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

Received:	05/08/2013	Sampling Date:	05/06/2013	
Reported:	05/13/2013	Sampling Type:	Soil	
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact	
Project Number:	30-015-26549	Sample Received By:	Jodi Henson	
Project Location:	EDDY COUNTY, NM			

Sample ID: MB - 3' (H301097-15)

Chloride, SM4500Cl-8 mg/kg			Analyze	Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	вŚ	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	05/10/2013	ND	432	108 .	400	0.00	

Sample ID: MB - 4' (H301097-16)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	05/10/2013	ND	432	108	400	0.00	

Sample ID: MB - 5' (H301097-17)

Chloride, SM4500Cl-B mg/kg			Anaiyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	05/10/2013	ND	432	108	400	0.00	

Sample ID: MB - 6' (H301097-18)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	05/10/2013	ND	432	108	400	0.00	

Sample ID: MF1 - 1' (H301097-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	05/10/2013	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF1 - 2' (H301097-20)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: DW				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	05/10/2013	ND	416	104	400	3.77	

Sample ID: MF1 - 3' (H301097-21)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7520	16.0	05/10/2013	ND	416	104	400	3.77	

Sample ID: MF1 - 4' (H301097-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	05/10/2013	ND	416	104	400	3.77	

Sample ID: MF1 - 5' (H301097-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW		*			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	05/10/2013	ND	416	104	400	3.77	

Sample ID: MF1 - 6' (H301097-24)

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: DW	·		······································		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	05/10/2013	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
\$ 18	Samples not received at proper temperature of 6°C or below.
4.4 ¥	Insufficient time to reach temperature.
	Chloride by SN4500Cl-B does not require samples be received at or below 6° C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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	Company Name Yates P	etroleum Corpo	oratio	<u>۱</u>														Pi	rojec	ct #:	<u></u>	•		3	0-0	<u>15-2</u>	<u>:654</u>	<u>t9</u>	<u> </u>	
	Company Address: 105 Sou	uth 4th Street					; 											Proj	ect L	Loc:				E	Edd	y Co	ount	<u>у</u>		
	City/State/Zip: Artesia,	NM 88210					 												P	0#:					10	320	20			
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	Sampler Signature:	<u>^</u>				- e-mail:		aca	ann	on	@\	/ate	espe	etro	leu		com													
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AB # (lab use only)	FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	otal #. of Containers	lce · · · · · · · · · · · · · · · · · · ·	HNU3		H2204 NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)		GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	8015M	PH: TX 1005 TX 1006	Cetions (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity)	Address As Ag Ba Cd Cr Pb H	Volatiles	Semivolatites	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
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	Project Manager:	Amber Can	non						;									P	roje	st Na	me:			Ma	arth	ıa A	IK F	eder	ral E	3atte	ry		Page 9 of 9
	Company Name	Yates Petro	leum Corpo	oratior	<u>) </u>				!										P	roje	ct #:					30	-01:	5-265	549				Pag
	Company Address:	105 South 4	4th Street						İ										Proj	ject	Loc:				•	Ec	dy	Cour	nty				L
	City/State/Zip:	Artesia, NM	88210						}			_								P	0#:	·					103	2020	 ນ				-
	Telephone No:	575-748-41	11				Fax No:											Repo	rt Fo	orma	it:	\mathbf{X}	Star	ndari	d]	ר_	IRRP			NPD	DES	-
	Sampler Signature:	Ambe	Can	nn	\		e-mail:	•	ac	an	nor	n@)yat	esr	betr	ole	<u>-</u> un	n.cor	<u>n</u>														
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LAB # (lab use only)	4301097 FIEI	LD CODE		Beginning Depth	Ending Depth	Date Sampled	 Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ³	HCI	H ₂ SO4	NaOH	Na ₂ 22,03	Other (Snorify)	Dural (Opening) DW=Drinking Waler SL=Sludge	GW = Groundwater S=Soll/Solid	TPH: 418.1 B015M 8	TX 1005	Callons (Ca, Mg, Na, K)	Anions (CI, SO4, AlkalInity)	SAR / ESP / CEC	Melals: As Ag Ba Cd Cr Pb Hg Se	Volaŭles	Semivolatiles	BTEX 80218/5030 or BTEX	RCI N.O.R.M.	Chlorides	SAR		RUSH TAT (Pre-Schedule) 24, 48,	
		MB-1'		1'	1'	5/6/2013	10:00 AM			x					T			S	X	1	1-		<u> </u>	-	1	-	x	+-	X		Ť	1	
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May 13, 2013

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/08/13 11:00.

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 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,

Celeo-1- Freever

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF2 - 1' (H301097-01)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% \$9.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2013	ND	210	105	200	0.918	
DRO >C10-C28	189	10.0	05/09/2013	ND	205	102	200	0.533	
Surrogate: 1-Chlorooctane	109	% 65.2-14	0					·	
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

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PLEASE NOTE: Liability and Damages. Cardinal's bablicy and clenk's exclusive remedy for any claim ansing, whether based in contract or ton, shall be limited to the amount paid by clenk for analyses. All talms, including trose for negligence and any ofter cause whatsome shell be deemed waved unless made in willing and received by Cardnal within thin y (20) days after completion for the applicable service. In no event shall be deemed waved unless made in willing and received by Cardnal within thin y (20) days after completion for the applicable service. In no event shall be for including to consequencial damages, unloading, without instructions, based on consequencial damages, unloading, without instructions, based on consequencial by dient, is substand, stiffates or successions among out of related to the performance of the services berearder by Cardnal, regardless of whether such damins based upon any of the abors bated reasons or otherwise. Results relate only to the samples identified abore. This report shall hant to report claim approval of cardnal ubstances.

Celler Litrene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF2 - 2' (H301097-02)

.

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Nethod Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	< 0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	<0.050	. 0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61 -	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	6 89.4-12	6					·····	
трн 8015м	. 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	05/09/2013	ND	210	105	200	0.918	
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533	
Surrogate: 1-Chlorooctang									

Surrogate: 1-Chlorooctane	99.6 %	65.2-140
Surrogate: 1-Chlorooctadecane	105 %	63.6-154

*=Accredited Analyte

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PLEASE HOTE: uabity and Damages. Cardinal's Jobiny and chord's enclusive remedy for any claim ansing, whether based in contract or tort, shull be limited to the amount pard by claim for analyses. All claims, including these for negligence and any other completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptores, loss of use, or loss of profits incidental by claims, affilters or successors analyging of or related to the performance of the services hereinster by Cardinal, negarities of whether such daim's based upon any of the above stated reasons or otherwise. Results relate only to the samples of whether such daim's based upon any of the above stated reasons or otherwise, Results relate only to the samples detailed above. This report subility cardinal produced except in full with writter approval of Cardinal Laboratories.

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Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

VLaboratories

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

Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF2 - 3' (H301097-03)

BTEX 80218 Analyzed By: AP mg/kg Reporting Limit Analyte Result Analyzed Method Blank 85 % Recovery True Value QC RPD Qualifier <0.050 0.050 05/10/2013 ŇD 2,00 Benzene* 2.16 108 4.05 Toluene* < 0.050 0.050 05/10/2013 ND 1,98 98.8 2:00 3.36 Ethylbenzene* 0.050 05/10/2013 < 0.050 ND 2.14 107 2.00 2,83 Total Xylenes* 0.150 05/10/2013 < 0.150 ND 6.19 103 6.00 2.61 Total BTEX < 0.300 0.300 05/10/2013 ND 109% 89.4-126 Surrogate: 4-Bromofluorobenzene (PIL TPH 8015M Analyzed By: MS mg/kg Analyte Result Reporting Limit Analyzed Method Blank 8S True Value QC RPD % Recovery Oualifier GRO C6-C10 <10.0 10.0 05/09/2013 ND 210 105 200 0.918 DRO >C10-C28 <10.0 10.0 05/09/2013 ND 205 102 200 0.533 99.3 % 65.2-140 Surrogate: 1-Chlorooctane

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Surrogate: 1-Chlorvoctadecane

101%

63.6-154

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF2 - 4' (H301097-04)

BTEX 8021B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	108 9	%	5				- -		
TPH 8015M	mg/	kg	Analyze	ed 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	05/09/2013	ND ·	210	105	200	0.918	
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533	
Surrogate: 1-Chlorooctane	92.5	% 65.2-14)			•• ••			
Surrogate: 1-Chlorooctadecane	99.4 :	63.6-15	4						

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PEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remety for any claim arising, whether based in contract or ton, shall be limited to the amount paid by client for analyses. All claims, including trace for negligence and arry other cases whitsophere shall be deemed waved unless maning and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponded damages, including, without invation, business interruptores, loss of use, or loss of prefits incurred by client, insubstances, affilietes or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims busines cannot dreative statil to be table to the performance of the services hereunder by Cardinal, regardless of whether such claims busines cannot dreative statil to be table to the performance of the services hereunder by Cardinal, regardless of whether such claims busines and damages, business interruptores, loss of use, or loss of use and to be services hereunder by Cardinal bother such claims busines and damages and discoveres the services relations of the service service such responses of credition to the performance of the services hereunder by Cardinal, regardless of whether such claims based cannot dreative show the state relation to the service service service service services hereunder by Cardinal based and the services.

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Celey D. Keene, Lab Director/Quality Manager



بمربيات بلاعد للرابي

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

Analytical Results For:

Yates Energy	Petroleum Corp
AMBER CANN	ON
105 S 4th Stre	et
Artesia NM, 8	8210
Fax To: (505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF2 - 5' (H301097-05)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					···-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	< 0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	< 0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	< 0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	< 0.300	0.300	05/10/2013	ND					
Surrogaie: 4-Bromafluorobenzene (PIL	110 9	% 89.4-12	6						
трн 8015м	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	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	90.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.3	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF2 - 6' (H301097-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	. 98.8	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 5	% 89.4-12	б						
TPH 8015M	mg/	kg	Analyze	d By: MS		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	· ND	181	90.7	200	1.51	
Surrogate: J-Chlorooctane	97.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98. I	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Yates Energy	Petroleum Corp
AMBER CANN	NON
105 S 4th Str	reet
Artesia NM, 8	38210
Fax To:	(505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF3 - 1' (H301097-07)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	< 0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0,150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 89.4-12	6				44 - 44 - 27 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -		*- <u>*</u> -,,
трн 8015м	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	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	100	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For;

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF3 - 2' (H301097-08)

BTEX 80218	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Anałyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3,36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 89.4-12	6						
TPH 8015M	mg	/kg	Analyze	d By: MS		·	·····		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	93.5	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	97.5	% 63.6-15	î.4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF3 - 3' (H301097-09)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	· 2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	< 0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzenc (PIL	108	% \$9.4-12	6			······································			
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	85.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.4	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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91.8%

63.6-154

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

Analytical Results For;

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF3 - 4' (H301097-10)

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BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene ^{a.}	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% \$9.4-12	6						
TPH 8015M	,mg	/kg	Analyze	d By: MS					
Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD ·	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	86.6	% 65.2-14	()						, /

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soll
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF3 - 5' (H301097-11)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	[·] 05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	108	% 89.4-12	26		**************************************				
трн 8015м	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	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	90.3	% 65.2-1-	40						
Surrogate: 1-Chlorooctadecane	96.4	% 63.6-1.	54						

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Celey D. Keene, Lab Director/Quality Manager

Page 12 of 28

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Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MB - 1' (H301097-13)

BTEX 8021B	mg/	kg	Analyze	d By: AP	··				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	ßS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	< 0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	< 0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 \$	89.4-12	26						
TPH 8015M	mg	'kg	Analyze	d By: MS					
Anəlyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	< 10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	98.7	% 65.2-14	10			· · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	106	63.6-15	14						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MB - 2' (H301097-14)

BTEX 8021B	mg/	kg	Analyze	d By: AP			<u> </u>	·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/10/2013	ND	2.03	104	2.00	4.33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	109	% \$9.4-12	6				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90,7	200	1.51	
Surrogate: 1-Chlorooctane	93.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.9	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MB - 3' (H301097-15)

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BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.06	103	2,00	4.72	
Totai Xylenes*	<0.150	0.150	05/10/2013	ND	6,06	. 101	, 6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12					- *****		
трн 8015м	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO CE-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90,7	200	1.51	
Surrogate: 1-Chlorooctane	99.7	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	i4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013	
Reported:	05/13/2013	Sampling Type:	Soil	
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact	
Project Number:	30-015-26549	Sample Received By:	Jodi Henson	
Project Location:	EDDY COUNTY, NM			

Sample ID: MB - 4' (H301097-16)

BTEX 8021B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	< 0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene* .	<0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
Total Xylenes*	< 0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	109	% \$9.4-12	6						
TPH 8015M	_ mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0	· · ·					
Surrogate: 1-Chlorooctadecane	114	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MB - 5' (H301097-17)

BTEX 80218	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.08	104	2.00	4,33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.06	103	2,00	4.72	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND				,	
Surrogate: 4-Bromofluorobenzene (PIL	105	% 89.4-12	26						
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	05/10/2013	ND	194	.96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	103	% 65.2-14	10					·····	
Surrogate: 1-Chloroactadecane	110	% 63.6-15	i <i>d</i>						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MB - 6' (H301097-18)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 89,4-12	6		·····	- <u> </u>		·	
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	05/10/2013	ND	194.	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	96.1	% 65.2-14	0	······································					
Surrogate: 1-Chlorooctadecane	102 \$	6 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF1 - 1' (H301097-19)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	ßS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6,06	101	6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
трн 8015м	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	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	28.3	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	106	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF1 - 2' (H301097-20)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	< 0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 5	% 89.4-12	6		.,		······································		
трн 8015м	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	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	41,1	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	100 9	65.2-14	0						
Surrøgate: 1-Chlorooctadecane	104 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Yates Energ	y Petroleum Corp
AMBER CAN	NON
105 S 4th Si	reet
Artesia NM,	88210
Fax To:	(505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF1 - 3' (H301097-21)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	< 0.050	0.050	05/10/2013	ŃD	2.06	103	2.00	4.72	
Total Xylenes*	< 0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	. 109	% 89.4-12	26	······································					
TPH 8015M	mg/kg		Analyzed By: MS						•
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	102	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	i4						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Yates Energy Petroleum Corp AMBER CANNON 105 5 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF1 - 4' (H301097-22)

BTEX 8021B	mg/	kg	Analyze	d By: AP	····	·			
Analyte	Result	Reporting Limit	Analyzed	, Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	< 0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	< 0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
Total Xylenes*	< 0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	< 0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (P	IE 109 9	% \$9.4-12	?6						
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	ßS	% Recovery	⊤rue Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	. ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	107 5	65.2-1 ₄	10			<u> </u>			
Surrogate: 1-Chlorooctadecane	114 \$	% 63.6-15	54						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/13/2013	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF1 - 5' (H301097-23)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
'Total Xylenes [:] ≉	<0,150	0.150	05/10/2013	ND	6,06	101	6.00	4.21	
Total BTEX	<0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	'109	% 89.4-12	6						*** *** <u>*</u> *** **** ****************
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2013	ND	194	96.9	200	0.684	
DRO >C10-C28	<10.0	10.0	05/10/2013	ND	181	90.7	200	1.51	

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	05/08/2013	Sampling Date:	05/06/2013	
Reported:	05/13/2013	Sampling Type:	Soil	
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	Cool & Intact	
Project Number:	30-015-26549	Sample Received By:	Jodi Henson	
Project Location:	EDDY COUNTY, NM			

Sample ID: MF1 - 6' (H301097-24)

BTEX 8021B	mg/	kg	Analyze	d By: AP					·····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.08	104	2.00	4.33	
Toluene*	<0.050	0.050	05/10/2013	ND	1.90	95.1	2.00	4.29	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.06	103	2.00	4.72	
Total Xylenes*	< 0.150	0.150	05/10/2013	ND	6.06	101	6.00	4.21	
Total BTEX	< 0.300	0.300	05/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% \$9.4-12							
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	05/13/2013	ND	213	107	200	0.896	
DRO >C10-C28	<10.0	10.0	05/13/2013	ND	209	104	200	1.12	
Surrogate: 1-Chlorooctane	110	% 65.2-14	10			- <u> </u>			
Surrogate: 1-Chlorooctadecane	118	63.6-15	i.J						

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	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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PLEASE NOTE: Labity and Damages. Cardinal's labity and clent's exclusive remedy for any daim anama; whether based in contract or tort, shall be limited to the amount paid by cherr, for analyses. All claims, including base for negligence and any other cause whistoever shall be deemed waved urless make in whorp and received by claims, lackang dust for consequence) damages, including, without limitation, baseds intemptions, loss of use, or loss of probits included by claims, atfiliates or soutcescore and any of or related to the performance of the services hereunder by Certonal, regardless of whether sout dam's based claims and the box shall reason or otherwise. Results relate only to be sample including the control within exprision data and the performance.

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Celey D. Keene, Lab Director/Quality Manager

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	Company Name	Yates Petroleum Corp	oratio	<u>n</u>				}										Pr	ojec	t #:_				3	0-0	15-2	654	19			
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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 FIELD 1-7 (H302034-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW		·····			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	08/29/2013	ND	448	112	400	3.64	

Sample ID: MARTHA 1 FIELD 1-8 (H302034-02)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	08/29/2013	ND	448	112	400	3,64	

Sample ID: MARTHA 1 FIELD 1-9 (H302034-03)

Chloride, SM4500Cl-B	nıg,	'kg	Analyze	d By: DW				·····	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30800	16.0	08/29/2013	ND	448	112	400	3.64	

Sample ID: MARTHA 1 FIELD 1-10 (H302034-04)

Chloride, SM4500Cl-8	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24600	16.0	08/29/2013	ND	448	112	400	3.64	

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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 FIELD 1-11 (H302034-05)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	08/29/2013	ND	448	112	400	3.64	

Sample ID: MARTHA 1 FIELD 1-12 (H302034-06)

Chloride, SM4500Cl-B Analyzed By: DW -mg/kg Reporting Limit Analyte Result Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 11800 16.0 08/29/2013 ND 448 112 400 3.64 Sample ID: MARTHA 1 FIELD 2-7 (H302034-07) Chloride, SM4500Cl-B Analyzed By: DW mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS True Value QC RPD % Recovery Qualifier Chloride 25200 16.0 08/29/2013 ND 448 112 400 3.64 Sample ID: MARTHA 1 FIELD 2-8 (H302034-08) Chloride, SM4500Cl-B Analyzed By: DW mg/kg Method Blank Analyte Result Reporting Limit Analyzed RPD BS % Recovery True Value QC Qualifier 22200 16.0 08/29/2013 Chloride ND 448 400 112 3.64 Sample ID: MARTHA 1 FIELD 2-9 (H302034-09) Chloride, SM4500CI-B Analyzed By: DW mg/kg

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	08/29/2013	ND	448	112	400	3.64	

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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 FIELD 3-7 (H302034-10)

Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	23200	16.0	08/29/2013	ND	448	112	400	3.64	·

Sample ID: MARTHA 1 FIELD 3-8 (H302034-11)

Chloride, SM4500Cl-B mg/kg Analyzed By: DW

Analyte	Result	Reporting Limit *	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13900	16.0	08/29/2013	ND	448	-112	400	3.64	

Sample ID: MARTHA 1 FIELD 3-9 (H302034-12)

Chloride, SM4500Cl-B mg/kg Analyzed By: DW

Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	08/29/2013	ND	448	112	400	3.64	

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REASE NOTE: Labley and Damages. Canonal's labity and clerit's endurine terrecty for any claim annum, whether based in contract or tort, shall be limited to the annumt paid by claim for analysiss. All claims, including three for negligence and any other cause whatsever shall be cented worked unless made in writing and received by Cadimal writin thirty (33) days after complexition of the applicable service. In no event shall Cardimal be lable for industrial or consequential camages, including, writing humation, busiess informations, bits of unless information of predated to the performance of the services hereunder by Cardimal yraphets such claims based such causes of the date stated texator or observer. Results related one the state cave date services hereunder by Cardimal yraphets such claims based such caves of the date stated texator or observer. Results relate one the state cave date services

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Celey D. Keene, Lab Director/Quality Manager

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

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 SM4S00CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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	Project Manager:	Amber Cannon														_	Pi	roje	ct Na	me:			M	arth	na A	<u> IK F</u>	Fed	leral	#1	Fiek	<u>d</u>	
	Company Name	Yates Petroleum Corporation	on															F	roje	ct #:					30)-01	5-2	2654	9			
	Company Address:	105 South 4th Street																										ounty				
	City/State/Zip:	Artesia, NM 88210														-										103						,
	Telephone No:	575-748-4111 or 575-513-	8799			Fax No:		57	5.74	8-41	31				-		2000						ndar						 1	<u> </u>	NPDE	
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LAB # (lab use only)	FIEL	D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Fotal #. of Containers	lce	HNO3	НСІ	H ₂ SO4	Neoh	Na _z S ₂ O ₃	None Other (Specify)		GW = Groundweler S=Soll/Solld ND=Non-PoteNa Constitution	NF-NOR-POIBDIS SPECIFY CARE	05 TX 100	Cations (Ca, Mg, Na, K)	Anions (Cl. SO4, AlkalInity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semívolatiles	BTEX 80218/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24-48-72 bre	Standard TAT
1	Martha 1 Field 1-7		7'	7'	8/22/2013	9:00 AM		1						1			S	Ť	<u> </u>	Ť	Ì	<i></i>		-	Ť	-	+		x		Ŧ	X
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and the second second	Martha 1 Field 1-12		12'	12'	8/22/2013	9:10 AM		1			_			\rightarrow		<u> </u>	S	+						_	$ \rightarrow$		\downarrow		×		1	X
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January 21, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL BATTERY

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 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,

Celleg D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

YATES PET	YATES PETROLEUM CORPORATION						
AMBER CA	AMBER CANNON						
105 S 4th 9	105 S 4th Street						
Artesia NM	, 88210						
Fax To:	(505) 748-4635						

Received:	01/20/2014	Sampling Date:	01/17/2014
Reported:	01/21/2014	Sampling Type:	Soil
Project Name:	MARTHA AIK FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	30-015-26549	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: MF 4-10 (H400167-01)

Chloride, SM4500CI-8	mg,	'kg	Analyze	d By: AP		······································	· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	01/21/2014	ND	416	104	400	3.92	

Sample ID: MF 4-15 (H400167-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/21/2014	ND	416	104	400	3.92	

Sample ID: MF 4-20 (H400167-03)

Chioride, SM4500CI-B	 mg.	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/21/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liabley and Damages, Cardinal's leabley and clear's evolutive remedy for any realm ansing, whether based in contract or test, shall be lineled to the amount paid by cleart for analyses. All claims, including those for negligibles and any other cause whatsoers shall be deemed waved unless made in writing and received by Cardinal within thinty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, including housiness interruptions, loss of use, or loss of profits included by cleart, its subsidiaries, atfliates or successors areas out of or related to the performance of the services hereunder by Cardinal, regardless of whethor such claims based upon any of the above Wated reasons or otherwise. Results relate labore, this report shall on the reproduced encept in hill with whiten approval of Cardinal Laborationes.

Celand Keine

Celey D. Keene, Lab Director/Quality Manager

N Laboratories

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

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
\$ 4 X	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

Cardinal Laboratories

*=Accredited Analyte

PLEXSE NOTE: Lightly and Damages. Candwalls kability and dent's exclusive netteds for any claim arising, whether based in contract or tort, shall be finited to the amount paid by clent for analyses. All claims, including troose for negligence and any other cause whitescener shall be detended where a integral and and any claims and the standard by cleating and exception of the applicable service. In no event shall Cannal be faile for incidental or consequences damages, including, which limitation, business interruptions, loss of use, or loss of sceles and white standards and any other standards during and integrates and damain based upon any of the approximate standards related to the approximate candidard cannal laboratories.

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

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Condition of Approval Martha AIK Federal #1, 3001526549 Sec. 11, T22S-R31E, NM65417

Your work plan dated February 25, 2014 is approved subject to like approval by the NMOCD for the Martha AIK Federal #1 spill. These spills were off the location and occurred on April 18, 2013 and April 27, 2013 (NMOCD # 2RP-1631 & 2RP-1643).

- 1. Yates has or will excavate down to 4' then will place 2' compacted caliche barrier and 2' of like soil material back on top of spill area.
- 2. If area does not support vegetation growth Yates will be required to do additional work.
- 3. It may be beneficial to fence area to prevent livestock from damaging new growth once area is seeded in June 2014.

APPROVED J.D. Whitlock, Jr.

On Lettoch 9

Bratcher, Mike, EMNRD

From:	Amber Cannon <acannon@yatespetroleum.com></acannon@yatespetroleum.com>
Sent:	Tuesday, February 25, 2014 2:23 PM
То:	Bratcher, Mike, EMNRD; Duncan Whitlock
Cc:	Bob Asher
Subject:	Martha AIK Federal #1
Attachments:	MarthaAIKFederal1Field_Workplan022414.pdf

Importance:

High

Mike/Duncan,

Please find attached a work plan for the two releases that occurred on April 18, 2013 and April 27, 2013 (2RP-1631) at the Martha AIK Federal #1.

If either of you object to Yates' proposal, please let me know. Yates would like to get started on or before March 4, 2014.

Thanks,

Amber Cannon

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

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