MARTIN YATES, III

FRANK W. YATES

S.P. YATES



#### 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471 www.yatespetroleum.com JOHN A. YATES

JOHN A. YATES JR.

JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 11, 2013

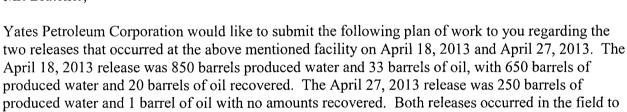
Mr. Mike Bratcher NMOCD District II 811 South First Street Artesia, NM 88210

RE: Martha AIK Federal #1

30-015-26549

Section 11, T22S-R31E Eddy County, New Mexico

Mr. Bratcher,



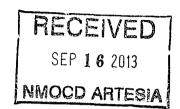
Initial TPH/BTEX and Chloride delineation samples were taken and were sent to a NMOCD approved facility, analytical results are enclosed for your review. The release area was split and sampled in four separate sections (MB, MF1, MF2, and MF3).

Yates Petroleum Corporation proposes to do the following work:

the south of the battery and inside the bermed battery.

- 1. Excavate 2' from inside the battery, keeping at a safe distance from the tanks to ensure the stability of the tanks stays in place. After this 2' has been removed we would add a layer of caliche back into the battery.
- 2. Instead of excavating soils from the field, we propose to lay a liner over the impacted area. Yates has already excavated approximately 2' of soils from the release area. On top of the liner we would backfill with a 1.5' layer of caliche and then a 1.5' layer of sand. Yates also proposes to collapse some of the sand dunes in this area and utilize this sand as backfill. In order for trucks to get in and out of the area to drop hauled in caliche, Yates would need to temporarily build two caliche roads to the excavation area (on the attached site diagram I have roughly drawn in our idea for the caliche roads). Once work is finished, Yates would strip the caliche we brought in for the roads and re-seed these disturbances when we re-seed the release area next year.

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



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

Thank You,

Amber Cannon

Environmental Regulatory Agent

Yates Petroleum Corporation

Enclosure(s): 3

cc: Jim Amos, BLM - Carlsbad District Office



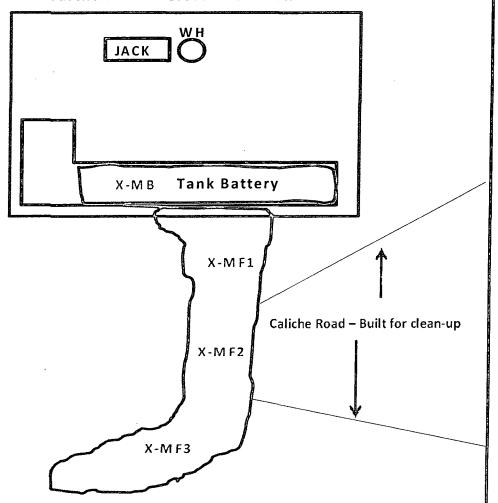
X - MB1, 2, 3, 4, 5, 6

X-MF11,2,3,4,5,6,7,8,9,10,11,12

X - MF21, 2, 3, 4, 5, 6, 7, 8, 9

X-MF31,2,3,4,5,6,7,8,9

#### Martha AIK Federal #1 Location





Martha AIK Federal #1

30-015-26549

**Section 11, T22S-R31E** 

**Eddy County, NM** 

Prepared by Amber Cannon Environmental Regulatory Agent

\*DRAWING NOT TO SCALE\*

### Martha AIK Federal #1

## **Cardinal Laboratories**

Analytical Report-	CI- A	0 1 5		- ·	DIEV	0.00	550	TOTAL	
H301097	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
MB-1'	Release Area	5/6/2013	Grab/Backhoe	1'	ND	ND	ND	ND	5,120
MB-2'	Release Area	5/6/2013	Grab/Backhoe	2'	ИD	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	ИD	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
MF2-2'	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	ND	ND	ND	5,840
MF3-3'	Release Area	5/6/2013	Composite/Backhoe	3'	ЙD	ДИ	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	ИD	ND	6,800

Analytical Report-					
H302034	Sample Area	Sample Date	Sample Type	Depth	Chlorides
MF1-7	Release Area	8/22/2013	Grab/Backhoe	7'	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

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 Released: 250 B/PW, 1 B/O; Recovered: 0 B/PW, 0 B/O. Release Date: 4/27/2013



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

Celes D. Kenne

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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	Analyz	ed By: AP		<u> </u>	·- <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	2.16	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 (PIC	110 %	6 89.4-12	6	-					
TPH 8015M	mg/	kg	Analyze	d By: MS			<del></del>		
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 %	65.2-140	)		11000				
Surrogate: 1-Chlorooctadecane	105 %	63.6-154							

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 incidental or consequential damages, including, which 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 reprodued except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



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	Analyz	ed 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	2.16	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	% 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	05/09/2013	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	99.6 %	65.2-140	)						-
Surrogate: 1-Chlorooctadecane	105 %	63.6-15-	4						

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\*=Accredited Analyte

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Celeg & Keene



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 Name:

30-015-26549

Sample Received By:

Jodi Henson

Project Number: Project Location:

EDDY COUNTY, NM

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

BTEX 8021B	mg,	/kg	Analyz	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 (PIL	109 9	% 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	05/09/2013	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	99.3 9	65.2-140	)						
Surrogate: 1-Chlorooctadecane	1049	63.6-154	#						

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Celey D. Keine



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	Analyz	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 (PIL	108 9	% 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	05/09/2013	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 9	65.2-140	0		·				
Surrogate: 1-Chlorooctadecane	99.49	63.6-15	4						

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Celeg L. Keena



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)

BTEX 8021B	mg,	/kg	Analyz	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 (PIL	110 %	6 89.4-12	6						
TPH 8015M	mg/	kg	Analyzed By: MS				<del></del>		
Analyte	Result	Reporting Limit	Arialyzed	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 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	92.3 %	63.6-15	1						

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\*=Accredited Analyte

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Celeg & Keene



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	Analyz	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 (PIL	109 %	6 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	97.0 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	98.1 %	63.6-154	1						

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Celey D. Keene



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 - 1' (H301097-07)

BTEX 8021B	mg,	′kg	Analyz	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 (PIL	108 %	6 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	100 %	65.2-140	)			/2			
Surrogate: 1-Chlorooctadecane	107 %	63.6-15	1						

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Celeg & Keene



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 8021B	mg	/kg	Analyz	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	% 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 9	65,2-140	)						
Surrogate: 1-Chlorooctadecane	97.5 %	63.6-15=	<i>‡</i>						

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Celeg D. Keine



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Fax To:

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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	Analyz	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 %	6 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	85.5 %	65.2-140	)				AM		
Surrogate: 1-Chlorooctadecane	88.4 %	63.6-154	t						

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Celey & Kuna



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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)

BTEX 8021B	mg,	/kg	Analyz	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 (PIC	108 %	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	86.69	65.2-14	)			*****			
Surrogate: 1-Chlorooctadecane	91.89	63.6-15	t .						

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Coley & Keens



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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 - 5' (H301097-11)

BTEX 8021B	mg,	/kg	Analyz	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	2.08	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 (PIC	108 9	6 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	90.3 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	96.4%	6 63.6-15	1						

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Caley & Keena



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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 - 6' (H301097-12)

BTEX 8021B	mg,	/kg	Analyz	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	2.08	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						
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	91.09	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.7 9	63.6-15-	4						

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Celeg & Keine



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Received:

05/08/2013

Sampling Date:

05/06/2013

Reported:

05/13/2013

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL BATTERY

Cool & Intact

Project Number:

30-015-26549

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

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

BTEX 8021B	mg,	/kg	Analyz	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	2.08	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	1109	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Ahalyzed	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	98.7 %	65.2-14	0					*********	
Surrogate: 1-Chlorooctadecane	106 %	63.6-15	4						

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Fax To:

Received:

05/08/2013

Sampling Date:

05/06/2013

Reported:

05/13/2013

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL BATTERY

Cool & Intact

Project Number:

30-015-26549

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

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

BTEX 8021B	mg,	/kg	Analyz	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	2.08	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 (PIC	109 %	6 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	93.6 %	65.2-140	)						, , , , , , , , , , , , , , , , , , , ,
Surrogate: 1-Chlorooctadecane	97.9 %	63.6-154	t						

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Fax To:

(505) 748-4635

Received:

05/08/2013

Sampling Date:

05/06/2013

Reported:

Sampling Type:

Soil

05/13/2013

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)

BTEX 8021B	mg,	/kg	Analyzo	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	2.08	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	6 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	99.7 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	107 %	63.6-15	#						

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(505) 748-4635

Received:

05/08/2013

Sampling Date:

05/06/2013

Reported:

Sampling Type:

Soil

05/13/2013

Sampling Condition:

Project Name: Project Number: MARTHA AIK FEDERAL BATTERY 30-015-26549

Cool & Intact

Project Location:

Sample Received By:

Jodi Henson

EDDY COUNTY, NM

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

BTEX 8021B	mg	/kg	Analyz	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	2.08	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 (PIC	109 9	% 89.4-120	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 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	114%	63.6-154	!						

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Celeg & Keene



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:

Soil

05/13/2013

Sampling Type:

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 8021B	mg/	'kg	Analyz	ed By: AP					- <del></del>
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 %	6 89.4-120	6						
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	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 %	65.2-140	)			***************************************			
Surrogate: 1-Chlorooctadecane	110 %	63.6-154	1						

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\*=Accredited Analyte

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Celeg D. Keene



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

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg	/kg	Analyz	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	2.08	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	% 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	96.1 %	% 65.2-14	0			··· ******	1		
Surrogate: 1-Chlorooctadecane	102 %	63.6-15	4						

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Celey & Keene



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	Analyz	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	2.08	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	6 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	28.3	10.0	05/10/2013	ND	181	90.7	200	1.51	
Surrogate: 1-Chlorooctane	106 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	116 %	63.6-154	1						

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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	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	2.08	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 %	6 89.4-12	6						
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	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 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	104 %	63.6-154	4						

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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 - 3' (H301097-21)

BTEX 8021B	mg/	kg	Analyz	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	2.08	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 %	6 89.4-12	6						
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	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 %	65.2-140	0			,			
Surrogate: 1-Chlorooctadecane	103 %	63.6-154	<i>‡</i>						

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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 Type: 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	Analyz	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	2.08	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 (PIC	109 %	6 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	107 %	65.2-140	9						
Surrogate: 1-Chlorooctadecane	114 %	63.6-15	4						

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Celeg & Keine



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

MARTHA AIK FEDERAL BATTERY

Sampling Condition:

Cool & Intact

Project Name: Project Number:

30-015-26549

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg,	/kg	Analyz	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	2.08	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	6 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	
Surrogaie: 1-Chlorooctane	96.9 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 %	63.6-15-	4						

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Celeg to Freene



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 Jodi Henson

Project Number:

30-015-26549

Sample Received By:

Project Location:

EDDY COUNTY, NM

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

BTEX 8021B	mg,	/kg	Analyz	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	2.08	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 %	6 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	05/13/2013	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 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	118 %	63.6-15	1						

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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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Celey D. Keena

#### ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

HAIN OF	CUSTODY	RECORD	AND ANALYSIS	PENIEST
	0001001		<i></i>	1120221

ŏ Project Manager: Amber Cannon Martha AlK Federal Battery Project Name: Yates Petroleum Corporation Company Name 30-015-26549 Project #: Company Address: 105 South 4th Street **Eddy County** Project Loc: City/State/Zip: Artesia NM 88210 PO#: 1032020 Report Format: X Standard Telephone No: 575-748-4111 Fax No: TRRP NPDES lannon Sampler Signature: acannon@vatespetroleum.com e-mail: Analyze For: use only). TCLP: TOTAL: ORDER #: Preservation & # of Containers Matrix Metals: As Ag Ba Cd Cr Pb Hg-Se BTEX 80218/5030 or BTEX 8260 Anions (Cl. SO4, Alkalinity) Beginning Depth Date Sampled **Ending Depth RUSH TAT** Total #. of Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> Chlorides NaOH S S None FIELD CODE 1' 1' 5/6/2013 11:00 AM S MF2-1' X. Ż' 2' чIх MF2-21 5/6/2013 11:00 AM S Х 3' .3' 5/6/2013 1 X MF2-3' 11:00 AM S Χ Х MF2-4' 4' 4' 5/6/2013 11:00 AM 1 X Х S Х 5' 5' MF2-5' 5/6/2013 11:00 AM 1 S Х Х ما 6' MF2-6' 6' 5/6/2013 11:00 AM S MF3-1' 1' 1' 5/6/2013 11:30 AM S X 8 MF3-2' 2' 2' 5/6/2013 11:30 AM S 9 MF3-3' 3' 3' 5/6/2013 11:30 AM S 4' ıO MF3-4' 5/6/2013 11:30 AM S 5' MF3-5' 5/6/2013 11:30 AM S Х 6' 5/6/2013 11:30 AM MF3-6' TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Please put chlorides Special Instructions: Laboratory Comments: on a separate report Thank you. VOCs Free of Headspace? Relinquished by: Date Date Labels on container(s):
Custody seals on container(s) Time Received by: Time 51813  $A\omega$ ann w Relinquished by: Time Received Time Sample Hand Delivered by Sampler/Client Rep.? 8 by Couriet? UPS DHL FedEx Lone Star Relinquished by: Date Time l'emperature Upon Receipt:

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505)	393-2326	FAX	(505)	393-247	76

		- 1							<u> </u>											•											- 1
	Project Manager:	Amber C	Cannon	1					<u> </u>	· .			<u>.</u>			. ·		Proje	ct N	ame	·		Ма	rtha	Alk	(Fe	dera	l Bat	tery	· ·	_[
	Company Name	Yates Pe	etroleui	m Corpora	ation			· ·											Proj	ect#:	·	<b>.</b>	· 	3	30 <b>-</b> 0	)1 <u>5-:</u>	2654	9_			
	Company Address:	105 Sou	th 4th	Street			<del></del>		Ì									Pr	ojec	t Loc	:			- : .	Ėdo	3 yb	ount	<u>y</u>			L
	City/State/Zip:	Artesia,	NM 8	8210	• .			· · · · · ·								٠.				PO#	·	-			10	0320	020	``\`	<u> </u>		
	Telephone No:	575-748	3-411 <u>1</u>				<i>:</i>	Fax No:	\{\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	· ·							Re	port l	Form	nat:	x	Star	ndaro	i		TR	₹RP	. [	□N	PDES	;
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use			4,65N						}											•	T	CLP:	An	alyze	For	_		$\overline{\Box}$	$\overline{T}$	$\exists \exists$	
RDEI								•	}	٢	Pre	erval	tion &	# of C	Contair	ners	Ma	trix	e T	T	то :1	TAL:	. 0	$\dashv$	7					8, 72 hrs	
AB#(lab use only)	1 201097	ELD CODE			Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	rotal #. of Containers	Ice	HCI	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None Other ( Specify)	r St.=Sludge	GW = Groundwater S=Solusolid	418.1 8015M	TPH: .TX 1005 TX 1006	Anions (Ct, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260 RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48,	Standard TAT
13		MB-1'			1'_	1'	5/6/2013	10:00 AM	Ŀ		X							S	х							x		Х			Х
ij		MB-2'	·	· · · · · ·	2'	2'	5/6/2013	10:00 AM		1	X.	1	<u>. -</u>				$oldsymbol{\perp}$	s _	Х			_			_	x		X			X
15		MB-3'			. 3'	3'	5/6/2013	10:00 AM			X	_	_	igspace	_	_ _	↓_	s_	X		_	1	_		_	X.		X	Ш	_	X
<u>ها(</u>	<u> </u>	MB-4'			4'	4.'	5/6/2013	10:00 AM	_	1	X.	_	$\bot$	╄		_	1_	<u>s_</u>	X		_	↓_			$\dashv$	X.		X	$\sqcup$		<u> </u> x
1		MB-5'	· · ·	· · ·	5'	5'	5/6/2013	10:00 AM	_	+	X	$\bot$	_	丰	$\sqcup$	_	<del> </del>	s_	X	$\sqcup$		_	L			X.		X	Ц		<u> x</u>
18		MB-6'			6'	6'	5/6/2013	10:00 AM		1	X	_		1		_	1	<u>s_</u>	X	$\sqcup$		<u> </u>		$\sqcup$		X		<u> x</u>	Ц		<u> x</u>
19		MF1-1'	<u>'</u> .		1'	1'	5/6/2013	10:30 AM	_		X	4	_	$\bot$	1-1	_	1	s_	X	1		1	_			X	4	<u> x</u>	$\sqcup$	$\bot$	<u> </u> ×
30 20	)	MF1-2'	<u> </u>		2'	2'	5/6/2013	10:30 AM	<del> </del>	1	X	4	- -	$\perp$	1.1		1	<u>s</u>	X		$\perp$	_	1			X	_	<u> x</u>	$\sqcup$	4	_\X
يه		MF1-3'			3'	3'	5/6/2013	10:30 AM	1	_	X	4	_	_	1		1	S	X	Ш		1	1_			X		X			_ <u> </u> ×
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23		MF1-5'	<u></u>		5'	. 5'.	5/6/2013	10:30 AM	╄	1	X	_	_ -	4	_		1	S	X	<del></del>	<u>.   .</u>	4	1	<u> </u>		X		<u>  x</u>	_		1
21	al instructions:	MF1-6'			6'	6'	5/6/2013	10:30 AM		11	X				<u> </u>			S	X		125.287	373.26-2		2.032030	10000	X		∫x	721700	·	<u>\</u>
Speci	al instructions:			8015B, B eparate re			3 & Chloride k you.	s. Please sh	ow	BI	EX r	esul	ts as	mg	₃/kg.	Plea	ase p	ut ch	loric	les	Sam	ρle <u>C</u>	onta	iners	dota	ict/					
Relino	uished by:		Ц.,	Date		lime	Received by:			+						Τ	Date	-	Tin	ne	VOC Labe	s Fre	e of	Head	dspa	ice?	71340	2014 1	·Ø	12000	) 1740
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Relino	quished by:			Date	$\dagger$	Time	Received by I	-\·~~\			- 2	5					Date		grir					10/53	7	os celpt:			enex Z	Lone	Sta O



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

Celes D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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:

Analyte

Analyte

EDDY COUNTY, NM

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

BS

% Recovery

True Value QC

400

Qualifier

Chloride

Result 6000 Reporting Limit 16.0

Analyzed 05/10/2013 Method Blank ND

432

108

RPD 0.00

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Reporting Limit

Analyzed

BS.

% Recovery

RPD

0.00

Qualifier

Chloride

Result

6160

16.0

05/10/2013

Method Blank ND

432

108

True Value QC 400

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

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: DW

Method Blank

BS

True Value QC % Recovery

RPD

Qualifier

Chloride

Result 8000

16.0

Reporting Limit

Analyzed 05/10/2013

ND

432

108

400

0.00

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

Chloride, SM4500CI-B

Analyzed By: DW

Method Blank

BS

% Recovery

True Value QC

Qualifier RPD

Chloride

Result 21000 Reporting Limit 16.0

Analyzed 05/10/2013

ND

432

108

400

0.00

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Kune



Yates Energy Petroleum Corp AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

05/08/2013

05/13/2013

Reported: MARTHA AIK FEDERAL BATTERY

Project Name: Project Number:

30-015-26549

Project Location:

Analyte

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

05/06/2013

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B

mg/kg

Result

Result

22000

Analyzed By: DW

BS

% Recovery

True Value QC

400

True Value QC

Qualifier

432 108 Chloride 21000 16.0 ND 05/10/2013

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

Chloride, SM4500Cl-B

Analyte

mg/kg

Reporting Limit

Analyzed By: DW

BS

% Recovery

Qualifier

Chloride

16.0

Reporting Limit

05/10/2013

Analyzed

Analyzed

Method Blank ND

Method Blank

432

108 400 0.00

RPD

0.00

RPD

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

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: DW

Analyzed

Method Blank

BS

% Recovery

Qualifier

Chloride

Chloride

Chloride

Result 6320

Result

5840

Result

15200

Reporting Limit 16.0

Reporting Limit

16.0

Reporting Limit

16.0

05/10/2013

ND

432

108

True Value QC 400

RPD

0.00

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

Chloride, SM4500Cl-B

mg/kg

Analyzed

05/10/2013

Analyzed

05/10/2013

Analyzed By: DW

Method Blank

ND

BS

432

BS

432

% Recovery

108

True Value QC

400

RPD

0.00

Qualifier

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Method Blank ND

% Recovery

108

True Value QC

400

RPD

0.00

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg Di Keine



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:

Soil

05/13/2013

Sampling Type:

Project Name:

MARTHA AIK FEDERAL BATTERY

Sampling Condition:

108

400

Cool & Intact

Project Number:

30-015-26549

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

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

Chloride, SM4500CI-B	mg	/kg	Analyz	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	05/10/2013	ND	432	108	400	0.00	
Sample ID: MF3 - 5' (H30	1097-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: DW		4			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	05/10/2013	ND	432	108	400	0.00	
Sample ID: MF3 - 6' (H30	1097-12)								
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	05/10/2013	ND	432	108	400	0.00	
Sample ID: MB - 1' (H301	097-13)								
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	05/10/2013	ND	432	108	400	0.00	
Sample ID: MB - 2' (H301	097-14)								
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Chloride

\*=Accredited Analyte

0.00

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ND

432

05/10/2013

Celey D. Kuna

8240

16.0



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: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

30-015-26549

Project Location: EDDY COUNTY, NM

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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 - 4' (H301097-16)

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg,	/kg	Analyze	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, SM4500CI-B	mg	/kg	Analyze	d 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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\*=Accredited Analyte

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Celeg to Keena



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	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% 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)

hloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
hloride	7520	16.0	05/10/2013	ND	416	104	400	3.77	

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

Ch

Chloride, SM4500CI-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, SM4500CI-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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\*=Accredited Analyte

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Celeg & Keene



ND

#### **Notes and Definitions**

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keine



## ARDINAL LABORATORIES

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JHAIN OF	CUSTODY	' RECORD ANI	) ANALYSIS	REQUEST

-	·	nd, Hobbs, NM 88			(;	505) 393-2326 F	AX (505) 393-2	476																					
		Amber Canno		<del>.</del>		·			· .			: •			<u> </u>	P	rojec		Ī	-		Marth				٠,	ittery	<u>'                                     </u>	$\dashv$
	Company Name	Yates Petrole	um Corpora	ation	<del></del> -	<del></del>	<del></del>			-							Р	rojed	:t#:_		<del>-</del> -	·	30-	015	265	<u>49</u>	<u> </u>		
	Company Address:	105 South 4th	n Street	· .	·	<u> </u>			:	· .					<u>.</u>		Proj	ect l	.oc:_	.,-	·		Ec	ldy C	Coun	ty_		·	L
	City/State/Zip:	Artesia, NM	88210			· · · · · ·		). }	•				· 				•	P	0#:					1032	2020		<u>.</u>	· ·	
	Telephone No:	575-748-411	1				Fax No:	<u> </u>		<u>:</u>					<del></del>	Rep	ort Fo	orma	t:	x s	tand	ard	[	Эτ	RRP		<b>□</b> ₁	NPDES	<b>3</b> -
	Sampler Signature	: Limber	Cann	$\infty$			e-mail:		aca	nno	n@	yat	esr	<u>etro</u>	oleu	m.co	<u>m</u>		<u></u>			Analy	70 54			1.7			1
use	only)							į									E			TÇI		Arialy		<u>"-</u>	7	Ť		┥.。゚	ļ
ORDE	:R#:							ì	· г	Pres	ervati	on & 1	# of C	ontaine	ers	Matri	x m	1		TOTA	┪.		$\square$	$\exists$	ļ	-	1	72 hr	
LAB#(lab.use.only)		ELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers						Other (Specify)	DW=Drinking Water SL=Studge GW = Groundwater S=Soil/Solid	on-Potable Specify Other	ାଞ	s (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag balou of the right	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	KCI NO R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48	Standard TAT
		MF2-1'		1'	: 1'	5/6/2013	11:00 AM		1							s		x						х		X	1 1		X
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	3	MF2-3'		3'	3'	5/6/2013	11:00 AM	_	1	Χ.	1	1_			1	s		x						X		×			X
	<u> </u>	MF2-4'		4'	4'	5/6/2013	11:00 AM	<u> </u>	1	x		1_		_	4	s	_	<u>X</u>	.   _				1	X		X			X
		MF2-5'		5'	5'	5/6/2013	11.00 AM	╄	1		_ _	1				s	$\dashv$	X.	4	$\perp$	_	$\perp$	1	X		×		<u> </u>	X
	9	MF2-6'		6'	6,	5/6/2013	11:00 AM	_	_	X.	1	_				s	$\neg$	X	4		_	4	1	X	1	↓×		<u> </u>	X
	<u> </u>	MF3-1'		1'	1'	5/6/2013	11:30 AM	-		X.	-	-	-	-	- -	s	_	X.	-	-	$\dashv$		┷	×		-\×	_	$\vdash$	X
	8	MF3-2'	<del></del>	2'	2'	5/6/2013	11:30 AM	┼-	1		-}-	+-	<del>                                     </del>	$\vdash$	+	S		XI.	4-	┼			+	X	-	_\×		$\vdash$	- X
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	ial Instructions:	трн:	8015B, B1 separate re	TEX:	8021E	3 & Chloride k you.					sult	s as	mg/	kg.	Plea				Ş	ampl	Cor	Com taine of He	isini	ts:		71) N	arear	) )   	
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#### ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-247

<i><b>~!!!!!~~~</b></i>	ALIATARI	RECORD AND	4 1 / 4 / 1 / 1 / 1 / 1	

Pi	roject Manager:	Amber Canno	on	·				\(\frac{1}{2}\).	·· .			· 					Proj	ect N	lame	·		Ma	rtha	AIK	Fed	leral	Batt	ery		
С	ompany Name	Yates Petrole	um Corpora	ation	<u></u>			_	·									Proj	ect#	:			3	0-01	15-2	654	9		· ——	
С	ompany Address:	105 South 4t	h Street							٠٠ .		<u>.                                    </u>					P	гојес	t Loc	:				<u>∃dd</u>	у Сс	unt	<u>,                                     </u>			L
Ċ	:ity/State/Zip:	Artesia, NM	88210_	• .•	· · · · ·					· · ·						•									320		`\`			
Т	elephone No:	575-748-411	<u>1</u>		. ·	:	Fax No:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								-	Report	Form	nat:	x	Star	ndard	i		TRI	RP	٦	Лиг	PDES	,
S	Sampler Signature:	amber	Lann	$\infty$			e-mail:	ا آ	aca	nno	<u>on(</u>	<u>D</u> ya	ites	pet	role	um	.com	· .						·	- 1	· .		<u></u>		
use on ORDER								}		Dro		tion 9	) # of	Contai	B000	1	Matrix		<u> </u>		CLP.		alyze				T	T	72 hrs	
use only)	1201097	ELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	lce CMD	•				ecify)	Ing Water St.=Sludge	S=Soil/Solid	418.1 801	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, N, Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hr	Standard TAT
13		MB-1'		1'	1'	5/6/2013	10:00 AM		1								S	х						×			X			Х
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a3	Instructions:	ME1-5!	<u> </u>	5'	5'.	5/6/2013	10:30 AM	1_	1	X		_	_			_	<u>s</u>	_ ×				1_		_	X.		X		_	X
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August 29, 2013

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 FIELD

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

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Cool & Intact

Project Name:

MARTHA AIK FEDERAL #1 FIELD

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location: 30-015-26549

EDDY COUNTY, NM

Sample ID: MARTHA 1 FIELD 1-7 (H302034-01)

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

Chloride, SM4500CI-B	mg	/kg
Analyte	Result	Reporting Limi

Chloride

16.0

Analyzed 08/29/2013 Method Blank ND

BS 448 % Recovery 112

True Value QC 400

Qualifier

RPD

3.64

Chloride, SM4500Cl-B	/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	

Analyzed By: DW

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

Chloride, SM4500CI-B	mg/	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, SM4500CI-B	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	

Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene



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, SM4500CI-B	mg	/kg	Analyz	ed 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 F	(ELD 1-12 (H30	2034-06)							
Chloride, SM4500CI-B	mg,	/kg	Analyzo	ed By: DW					
Analyte	Result	Reporting Limit	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 FI	ELD 2-7 (H302	034-07)							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	08/29/2013	ND	448	112	400	3.64	
Sample ID: MARTHA 1 FI	ELD 2-8 (H302	034-08)							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Result Reporting Limit Analyzed Method		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22200	16.0	08/29/2013	ND	448	112	400	3.64	
Sample ID: MARTHA 1 FII	ELD 2-9 (H3026	034-09)							
Chloride, SM4500Cl-B	mg/l	kg	Analyze	f By: DW					
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	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keena



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:

Sampling Type:

Soil

Chloride, SM4500CI-B

08/29/2013

Cool & Intact

Project Name:

MARTHA AIK FEDERAL #1 FIELD

Sampling Condition:

Project Number:

30-015-26549

mg/kg

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

#### Sample ID: MARTHA 1 FIELD 3-7 (H302034-10)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23200	16.0	08/29/2013	ND	448	112	400	3.64	
Sample ID: MARTHA 1 F.	IELD 3-8 (H302	2034-11)							
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: DW					
Analyte	Result	sult Reporting Limit Ana		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 F	IELD 3-9 (H302	034-12)							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Result Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	08/29/2013	ND	448	112	400	3.64	

Analyzed By: DW

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keena



#### **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

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keens

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

F	Project Manager:	Amber Cannon									Project Name: Martha AlK Federal #1 Field																						
(	Company Name	Yates Petroleum Corporation									P	rojec	ct #:					30-0	<u> 215</u> .	-265	i49_												
(	Company Address:	105 South 4th Street									•								Edo	dy (	Coun	ıty	· —		·	_							
(	City/State/Zip:	Artesia, NM 88210									-		P	O #:	·			· 	10	03-:	2020	<u>)</u>											
-	Telephone No:	575-748-4111 o	Fax No: 575-748-4131									Report Format:					X Standard					TRRP NPDES											
Sampler Signature: ONDER CA					m		e-mail:									— eur	-					<del></del>											
					001		0 1110				<u> </u>	ري	<u>uto</u>	<u>95.3</u>		<u> </u>		<u> </u>					An	alyze	For		_	_	_		П		
ab use only) RDER #: H307034									Г	Pr	eserv	ation	8#0	f Con	tainers	· T	Mati	rix t			TO	CLP: TAL:		+	+						3, 72 hrs		
				$\neg$	$\neg \neg$	•		П	_	Ť		1					_		90		S BE				1 8	X 820	Ì				24, 48		
LAB# (lab use only)	FIE	ELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCI	H <sub>2</sub> SO <sub>4</sub>	NaCr.	None		DW=Drinking Water SL=Sludge GW = Groundwater S=Soll/Solid		TPH: 418.1 8015M	Cations (Ca Mg Na K)	Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals; As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI NORM	N.O.R.M.	SAR		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	Martha 1 Field 1-7			7'	7'	8/22/2013	9:00 AM		1			$\top$	$\top$		$\top$		S	;	1	+		Ť		Ĺ	-	7	-		x	$\top$		X	
2	Martha 1 Field 1-8			8'	8'	8/22/2013	9:02 AM		1									;										$\exists$ :	X .			X	
3	Martha 1 Field 1-9			9'	9'	8/22/2013	9:04 AM		1					<u> </u>	<u> </u>		9	;							$\prod$			:	x L	<u> </u>		X	
<u>u</u>	Martha 1 Field 1-1	0		'10 <b>'</b>	10	8/22/2013	9:06 AM		1						1			3										:	X			X	
5	Martha 1 Field 1-1	1		11'	11'	8/22/2013	9:08 AM	-	1			$\dashv$		$\perp$	$\perp$				$\perp$						$\perp$		$\bot$		<u>x   .</u>	$\perp$		Х	
6	Martha 1 Field 1-1	2		12'	12'	8/22/2013	9:10 AM	Ĺ.	1				$\perp$	$\perp$				<u> </u>	_			╽	L	Ш		$\perp$	$\perp$	:	x L	$\perp$		X	
7	Martha 1 Field 2-7			7'	7'	8/22/2013	9:15 AM	$\perp$	1	L						L		3				$\perp$	1				$\perp$		x	丄	$\perp$	×	
<u>න</u>	Martha 1 Field 2-8	3		8,	8'	8/22/2013	9:17 AM	1_	1				_					3					_	<u> </u>			$\bot$		x			X	
g	Martha 1 Field 2-9	)	:	9'	9'	8/22/2013	9:19 AM	1_	1	_			1		1	_		3				$\perp$	1				$\perp$	$\perp$	X			Х	
10	Martha 1 Field 3-7	7		7'	7'	8/22/2013	9:24 AM		1		_	_		1	1	L	<u>  '</u>	S			$\perp$	$\perp$							X	$\perp$		X	
	Martha 1 Field 3-8	3		8'	8'	8/22/2013	9:26 AM	1	1								:	S						<u>l</u>					x		1_	X	
12	Martha 1 Field 3-9	9	<u>.</u>	9'	9'	8/22/2013	9:28 AM	1	1	L	_			_		_		S_		1		1	_		$\bigsqcup^{1}$	$\square$		_	X.			X	
		·		<u> </u>	<u> </u>		<b></b>		_	<u> </u>	<u> </u>			_	$\perp$	$\perp$	<u> </u>			_		$\downarrow$	_	<u> </u>		$\bigsqcup$	$\sqcup$	_	$\dashv$				
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