

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986

S.P. YATES  
1914-2008



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

JOHN A. YATES  
CHAIRMAN EMERITUS

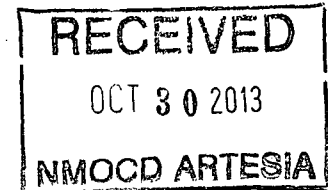
JOHN A. YATES JR.  
CHAIRMAN OF THE BOARD  
PRESIDENT

JOHN D. PERINI  
EXECUTIVE VICE PRESIDENT  
CHIEF FINANCIAL OFFICER

JAMES S. BROWN  
CHIEF OPERATING OFFICER

October 30, 2013

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



Re: Dolores AIL Federal #1  
30-015-26547  
Section 14, T22S-R31E  
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on April 21, 2013 (2RP-1635).

On October 16 - 17, 2013 Yates had a contractor complete the following work as per our meeting with Yates, BLM and NMOCD personnel at Yates' offices on September 23, 2013.

1. Yates had the pad scraped. Yates understands that we may have to address further chloride issues on the pad, when the location becomes abandoned.
2. Yates did not excavate any materials from section 3 (area alongside the lease road). Yates did do a light surface scrape of this area. Yates will continue to monitor this area to make sure that the chlorides left in place do not come back to the surface.
3. Yates excavated and disposed of 1-4' from section 2 (area east of the buried pipeline) of this release.
4. Yates used the first three feet of section 1 (area west of the buried pipeline and east of the access road) as backfill in section 2. Yates then excavated and disposed of the 4' and 5' from this section.

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

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

KATHY H. PORTER  
SECRETARY

DENNIS G. KINSEY  
TREASURER

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

Thank you.

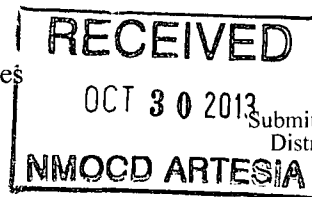
YATES PETROLEUM CORPORATION

Amber Cannon  
Environmental Regulatory Agent

/anc  
Enclosure(s)

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505



Form C-141  
Revised October 10, 2003  
Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Amber Cannon
Address 105 S. 4 <sup>TH</sup> Street	Telephone No. 575-748-1471	
Facility Name Dolores AIL Federal #1	API Number 30-015-26547	Facility Type Battery
Surface Owner Federal	Mineral Owner Federal	Lease No. NM-65418

#### LOCATION OF RELEASE

Unit Letter A	Section 14	Township 22S	Range 31E	Feet from the 660'	North/South Line North	Feet from the 430'	East/West Line East	County Eddy
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Latitude 32.39694 Longitude 103.74086

#### NATURE OF RELEASE

Type of Release Produced Water; Crude Oil	Volume of Release 20 B/PW; 1 B/O	Volume Recovered 0 B/PW; 0 B/O
Source of Release Poly pipe on water line	Date and Hour of Occurrence 4/21/2013; PM	Date and Hour of Discovery 4/21/2013, PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour NA	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* The poly pipe ruptured on main water line. All wells were turned off, tank valves were shut and personnel made sure there was no continuation of a spill. The water line was repaired.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 36' X 100'. The release was around the tin horn to the east (across the lease road) of the Dolores battery. Some of the released water flowed across the lease road and onto the Dolores Battery production pad. All affected areas will have initial clean-up completed, and all excavated soils will be disposed of at an approved NMOCD facility. Vertical and horizontal delineation samples will be taken and sent to a NMOCD approved facility. <b>Depth to Ground Water: &gt;100' (approximately 448', Section 16, T22S-R31E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: &gt;1000', SITE RANKING IS 0.</b> Yates Petroleum requests closure, please see attached cover letter for additional information.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <u>Amber Cannon</u>		OIL CONSERVATION DIVISION
Printed Name: Amber Cannon		
Title: Environmental Regulatory Agent	Approval Date:	Expiration Date:
E-mail Address: <u>acannon@yatespetroleum.com</u>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Monday, October 28, 2013 Phone: 575-748-4111	2RP- <u>1635</u>	

\* Attach Additional Sheets If Necessary

# YATES PETROLEUM CORPORATION

Dolores AIL Federal #1 Battery Tin Horn Release  
Release Date: 4/21/2013  
2RP-1635

Wednesday, October 30, 201

NW

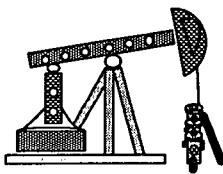
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Dolores AIL Federal Tank Battery  
and Dolores AIL Federal #1  
wellhead and pumpjack



Pad 1

Pad 2

Tanks and separation equipment

Section 3

Section 1

Section 2

Tin  
Horn

SW

SE

# DOLORES AIL FEDERAL #1 (BATTERY) - Tin Horn

Cardinal Laboratories

Analytical Report- H301096	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
D-1'	Release Area	5/6/2013	GRAB	1'	ND	ND	14.4	14.4	144
D-2'	Release Area	5/6/2013	GRAB	2'	ND	ND	ND	ND	288
D-3'	Release Area	5/6/2013	GRAB	3'	ND	ND	ND	ND	368
D-4'	Release Area	5/6/2013	GRAB	4'	ND	ND	ND	ND	21,200
D-5'	Release Area	5/6/2013	GRAB	5'	ND	ND	ND	ND	6160
D-6'	Release Area	5/6/2013	GRAB	6'	ND	ND	ND	ND	1780

✓ SECTION 1  
on site map

4' to 5'  
interval was  
EXCAVATED AND  
HAULED TO DISA

Analytical Report- H302033	Sample Area	Sample Date	Sample Type	Depth	Chlorides
Dolores 2-1	Release Area	8/22/2013	GRAB	1'	3,200
Dolores 2-2	Release Area	8/22/2013	GRAB	2'	3,600
Dolores 2-3	Release Area	8/22/2013	GRAB	3'	2,080
Dolores 2-4	Release Area	8/22/2013	GRAB	4'	4,120
Dolores 2-5	Release Area	8/22/2013	GRAB	5'	720
Dolores 2-6	Release Area	8/22/2013	GRAB	6'	16
Dolores 3-1	Release Area	8/22/2013	GRAB	1'	704
Dolores 3-2	Release Area	8/22/2013	GRAB	2'	1,100
Dolores 3-3	Release Area	8/22/2013	GRAB	3'	1,600
Dolores 3-4	Release Area	8/22/2013	GRAB	4'	9,040
Dolores 1-1 Pad	Release Area	8/22/2013	GRAB	1'	784
Dolores 1-2 Pad	Release Area	8/22/2013	GRAB	2'	304
Dolores 2-1 Pad	Release Area	8/22/2013	GRAB	1'	2160
Dolores 2-2 Pad	Release Area	8/22/2013	GRAB	2'	800

section 2  
Removed to  
4'

section 3  
No Delineation

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 448' NMOSE).

All results are ppm.Chlorides for documentation.

Released: 20 B/PW, 1 B/O; Recovered: 0 B/PW, 0 B/O. Release Date: 4/21/13. 2RP-1635



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

May 10, 2013

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: DELORES AIL 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 05/08/2013  
 Reported: 05/10/2013  
 Project Name: DELORES AIL FEDERAL BATTERY  
 Project Number: 30-015-26547  
 Project Location: EDDY COUNTY

 Sampling Date: 05/06/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: D-1' (H301096-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/10/2013	ND	416	104	400	3.77	

**Sample ID: D-2' (H301096-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/10/2013	ND	416	104	400	3.77	

**Sample ID: D-3' (H301096-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/10/2013	ND	416	104	400	3.77	

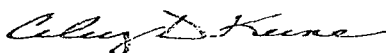
**Sample ID: D-4' (H301096-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	05/10/2013	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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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:	05/10/2013	Sampling Type:	Soil
Project Name:	DELORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

**Sample ID: D-5' (H301096-05)**

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	416	104	400	3.77	

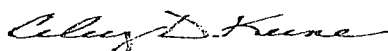
**Sample ID: D-6' (H301096-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1780	16.0	05/10/2013	ND	416	104	400	3.77		

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

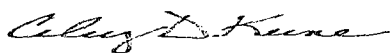
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager





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

May 10, 2013

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: DELORES AIL FEDERAL BATTERY

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

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Yates 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:	05/10/2013	Sampling Type:	Soil
Project Name:	DELORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

**Sample ID: D-1' (H301096-01)**

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	2.16	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 % 89.4-126

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	05/09/2013	ND	210	105	200	0.918	
DRO >C10-C28	14.4	10.0	05/09/2013	ND	205	102	200	0.533	

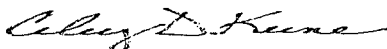
Surrogate: 1-Chlorooctane 95.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 Project Location: EDDY COUNTY

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 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: D-2' (H301096-02)**

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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Total BTEX	<0.300	0.300	05/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

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	05/09/2013	ND	210	105	200	0.918	
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533	

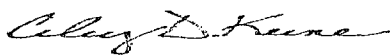
Surrogate: 1-Chlorooctane 95.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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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  
 Reported: 05/10/2013  
 Project Name: DELORES AIL FEDERAL BATTERY  
 Project Number: 30-015-26547  
 Project Location: EDDY COUNTY

 Sampling Date: 05/06/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

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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 % 89.4-126

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	05/09/2013	ND	210	105	200	0.918	
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533	

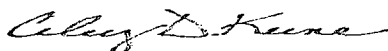
Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.6 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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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  
 Reported: 05/10/2013  
 Project Name: DELORES AIL FEDERAL BATTERY  
 Project Number: 30-015-26547  
 Project Location: EDDY COUNTY

 Sampling Date: 05/06/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: D-4' (H301096-04)**

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	2.16	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 % 89.4-126

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	05/09/2013	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 90.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 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  
 Reported: 05/10/2013  
 Project Name: DELORES AIL FEDERAL BATTERY  
 Project Number: 30-015-26547  
 Project Location: EDDY COUNTY

 Sampling Date: 05/06/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: D-5' (H301096-05)**

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	2.16	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 % 89.4-126

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	05/09/2013	ND	210	105	200	0.918		
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533		

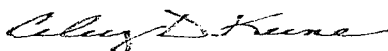
Surrogate: 1-Chlorooctane 94.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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\*=Accredited Analyte

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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:	05/10/2013	Sampling Type:	Soil
Project Name:	DELORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

**Sample ID: D-6' (H301096-06)**

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	2.16	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) 107 % 89.4-126

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	05/09/2013	ND	210	105	200	0.918		
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533		

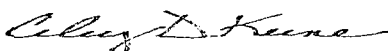
Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

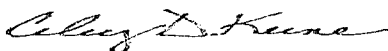
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

August 29, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DOLORES AIL FEDERAL #1 (TIN HORN)

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

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

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

**Sample ID: DOLORES 2-1 (H302033-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	08/28/2013	ND	416	104	400	3.92	

**Sample ID: DOLORES 2-2 (H302033-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	08/28/2013	ND	416	104	400	3.92	

**Sample ID: DOLORES 2-3 (H302033-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	08/28/2013	ND	416	104	400	3.92	

**Sample ID: DOLORES 2-4 (H302033-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	08/28/2013	ND	416	104	400	3.92	

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Celest D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

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

**Sample ID: DOLORES 2-5 (H302033-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/28/2013	ND	416	104	400	3.92	

**Sample ID: DOLORES 2-6 (H302033-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2013	ND	416	104	400	3.92	

**Sample ID: DOLORES 3-1 (H302033-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	08/28/2013	ND	416	104	400	3.92		

**Sample ID: DOLORES 3-2 (H302033-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	08/28/2013	ND	416	104	400	3.92	

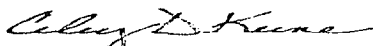
**Sample ID: DOLORES 3-3 (H302033-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	08/29/2013	ND	448	112	400	3.64	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

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

**Sample ID: DOLORES 3-4 (H302033-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9040	16.0	08/29/2013	ND	448	112	400	3.64	

**Sample ID: DOLORES 1-1 PAD (H302033-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	08/29/2013	ND	448	112	400	3.64	

**Sample ID: DOLORES 1-2 PAD (H302033-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	08/29/2013	ND	448	112	400	3.64		

**Sample ID: DOLORES 2-1 PAD (H302033-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	08/29/2013	ND	448	112	400	3.64		


**Sample ID: DOLORES 2-2 PAD (H302033-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	08/29/2013	ND	448	112	400	3.64		

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

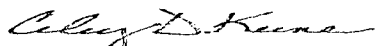
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager





ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

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

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon  
Company Name: Yates Petroleum Corporation  
Company Address: 105 South 4th Street  
City/State/Zip: Artesia, NM 88210  
Telephone No: 575-748-4111 or 575-513-8799  
Sampler Signature: Amber Cannon

Project Name: Dolores AIL Federal #1 (Tin Horn)  
Project #: 30-015-26547  
Project Loc: Eddy County  
PO #: 103-2020  
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

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

(lab use only)  
ORDER #: H302033

ORDER #:		H302033														Preservation & # of Containers										Matrix																				RUSH TAT (Pre-Schedule) 24, 48, 72		Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1	8015M	8015B	TX 1006	TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>Amber Cannon</u>	<u>8/23/13</u>		<u>Debi Henson</u>	<u>8/23/13</u>	<u>12:45</u>
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact? ☒ N  
VOCs Free of Headspace? ☒ N  
Labels on container(s) ☒ N  
Custody seals on container(s) ☒ N  
Custody seals on cooler(s) ☒ N  
Sample Hand Delivered ☒ N  
by Sampler/Client Rep. ☒ N  
by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star  
Temperature Upon Receipt: 44 °C