

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](http://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

April 13, 2015

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

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

Dear Mr. Bratcher:

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on 3/19/2015 (2RP-2933).

On 4/1/2015 Yates sampled the release area (approximately 15' x 65'). Analytical results show the following:

- TPH is over RRALs on the surface of the release area, and below RRALs at 6", 1', and 2' below the surface level.
- BTEX levels are below RRALs on the surface, 6", 1' and 2' below the surface level.
- Chlorides are at elevated levels (greater than 1,000 ppm) on the surface, 6", and 1', but are below 1,000 ppm at 2' below the surface level.

Yates proposes to excavate 1' of impacted soils from the release area and haul the contaminated soils to a NMOCD approved facility. Excavation will be backfilled with caliche. Once all work has been completed a Final C-141 will be submitted to your office.

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

Thank You,

Amber Cannon  
Environmental Regulatory Agent  
Yates Petroleum Corporation

## Dolores AIL Federal #1

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Surface	Release Area	4/1/2015	H500885	Comp/Auger	Surface	6.11	193	11,100	11,293	14,500
6"	Release Area	4/1/2015	H500885	Comp/Auger	6"	ND	ND	ND	ND	3,000
1'	Release Area	4/1/2015	H500885	Comp/Auger	1'	ND	ND	ND	ND	4,720
2'	Release Area	4/1/2015	H500885	Comp/Auger	2'	ND	ND	ND	ND	64

**Site Ranking is Zero (0).** Depth to Ground Water >100' (approx. 150', Section 11, T22S-R31E per ChevronTexaco Trend Map).

All results are ppm.Chlorides for documentation.

Released: 15 B/PW; 5 B/O, 3 MCF Gas. Recovered: 13 B/PW, 2 B/O. Release Date: 3/19/2015. 2RP-2933



A  
C  
C  
E  
S  
S  
  
R  
O  
A  
D

Pump Jack



Sep.



Sep.

Water  
Pump



Dolores AIL Federal #1  
30-015-26547  
Section 14, T22S-R31E  
Eddy County, NM

2RP-2933

Prepared by Amber Cannon  
Environmental Regulatory Agent

\*Drawing not to Scale\*

April 10, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DOLORES AIL FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/02/15 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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 PETROLEUM CORPORATION  
AMBER CANNON  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/10/2015	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	3/19/2015 RELEASE	Sample Received By:	Jodi Henson
Project Location:	14-22S-31E EDDY COUNTY		

**Sample ID: SURFACE (H500885-01)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	04/08/2015	ND	1.82	91.2	2.00	2.09	
Toluene*	0.575	0.100	04/08/2015	ND	1.74	86.9	2.00	0.754	
Ethylbenzene*	1.10	0.100	04/08/2015	ND	1.68	84.2	2.00	0.196	
Total Xylenes*	4.43	0.300	04/08/2015	ND	5.29	88.1	6.00	0.465	
Total BTX	6.11	0.600	04/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 149 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	193	50.0	04/07/2015	ND	196	98.2	200	3.87	
DRO >C10-C28	11100	50.0	04/07/2015	ND	217	109	200	5.33	

Surrogate: 1-Chlorooctane 126 % 47.2-157

Surrogate: 1-Chlorooctadecane 289 % 52.1-176

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 whatsoever 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, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey 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:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/10/2015	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	3/19/2015 RELEASE	Sample Received By:	Jodi Henson
Project Location:	14-22S-31E EDDY COUNTY		

**Sample ID: 6" (H500885-02)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2015	ND	1.82	91.2	2.00	2.09		
Toluene*	<0.050	0.050	04/08/2015	ND	1.74	86.9	2.00	0.754		
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.68	84.2	2.00	0.196		
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.29	88.1	6.00	0.465		
Total BTEX	<0.300	0.300	04/08/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 61-154

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	04/07/2015	ND	196	98.2	200	3.87		
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	217	109	200	5.33		

Surrogate: 1-Chlorooctane 112 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/10/2015	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	3/19/2015 RELEASE	Sample Received By:	Jodi Henson
Project Location:	14-22S-31E EDDY COUNTY		

**Sample ID: 1' (H500885-03)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2015	ND	2.09	105	2.00	2.49		
Toluene*	<0.050	0.050	04/08/2015	ND	1.92	96.2	2.00	2.57		
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.90	95.2	2.00	3.58		
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.94	99.0	6.00	3.41		
Total BTEx	<0.300	0.300	04/08/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 61-154

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	04/07/2015	ND	196	98.2	200	3.87	
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	217	109	200	5.33	

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 52.1-176

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**Analytical Results For:**

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

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/10/2015	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	3/19/2015 RELEASE	Sample Received By:	Jodi Henson
Project Location:	14-22S-31E EDDY COUNTY		

**Sample ID: 2' (H500885-04)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2015	ND	2.09	105	2.00	2.49		
Toluene*	<0.050	0.050	04/08/2015	ND	1.92	96.2	2.00	2.57		
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.90	95.2	2.00	3.58		
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.94	99.0	6.00	3.41		
Total BTEX	<0.300	0.300	04/08/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 61-154

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	04/07/2015	ND	196	98.2	200	3.87		
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	217	109	200	5.33		

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Project Name: Dolores All Federal Battery

Project #: 3/19/2015 Release

Company Address: 105 South 4th Street

Project Loc: 14-22S-31E, Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 205-2020

Telephone No: 575-748-4111 or 575-513-8799

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)

ORDER #: H500885

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 8015

TPH: TX 1005 TX 1006

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

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

TCLP:

TOTAL:

Analyze For:

Special Instructions:

TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.

Relinquished by:

Amber Cannon

Date

4/2/2015

Time

Received by:

Debi Munson

Date

4/2/15

Time

11:35

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:  
Sample Containers intact?  
VOCs Free of Headspace?  
Labels on container(s)  
Custody seals on container(s)  
Custody seals on cooler(s)  
Sample Hand Delivered  
by Sampler/Client Rep.?  
by Courier? UPS DHL FedEx Lone Star  
Temperature Upon Receipt: 75.4 °C

April 10, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DOLORES AIL FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/02/15 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/10/2015	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	3/19/2015 RELEASE	Sample Received By:	Jodi Henson
Project Location:	14-22S-31E EDDY COUNTY		

**Sample ID: SURFACE (H500885-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14500	16.0	04/06/2015	ND	400	100	400	0.00	

**Sample ID: 6" (H500885-02)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	04/06/2015	ND	400	100	400	0.00	

**Sample ID: 1' (H500885-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	04/06/2015	ND	400	100	400	0.00	

**Sample ID: 2' (H500885-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/06/2015	ND	400	100	400	0.00	

Cardinal Laboratories

\*=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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Cardinal Laboratories

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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 Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-513-8799

Sampler Signature: Amber Cannon

Fax No: 575-748-4131

e-mail: acannon@yatespetroleum.com

Project Name: Dolores All Federal Battery

Project #: 3/19/2015 Release

Project Loc: 14-22S-31E, Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: H500885

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers								Matrix	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	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	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT		
								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
1	Surface	Surf.	Surf.	4/1/2015	12:41 PM		1	X																									
2	6"	6"	6"	4/1/2015	12:50 PM		1	X																									
3	1'	1'	1'	4/1/2015	1:06 PM		1	X																									
4	2'	2'	2'	4/1/2015	1:10 PM		1	X																									

  

Special Instructions:		TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.	
Relinquished by: <u>Amber Cannon</u>	Date: <u>4/2/15</u>	Time: <u>11:35</u>	Received by: <u>Heidi Stender</u>
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

  

Laboratory Comments:	
Sample Containers Intact?	<input checked="" type="checkbox"/>
VOCs Free of Headspace?	<input checked="" type="checkbox"/>
Labels on containers?	<input checked="" type="checkbox"/>
Custody seals on container(s)?	<input checked="" type="checkbox"/>
Sample Hand Delivered by Sampler/Client Rep.?	<input checked="" type="checkbox"/>
by Courier? UPS DHL FedEx Lone Star	<input checked="" type="checkbox"/>
Temperature Upon Receipt:	<u>2.0</u> °C