MARTIN YATES, III 1912-1985

FRANK W. YATES

S.P. YATES 1914-2008



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471
www.vatespetroleum.com

JOHN A. YATES

JOHN A. YATES JR.
CHAIRMAN OF THE BOARD
PRESIDENT

JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN CHIEF OPERATING OFFICER

RECEIVED

0CT 3 0 2013

NMOCD ARTESIA

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 no 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.

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) <u>District I</u> 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 <u>District IV</u> 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

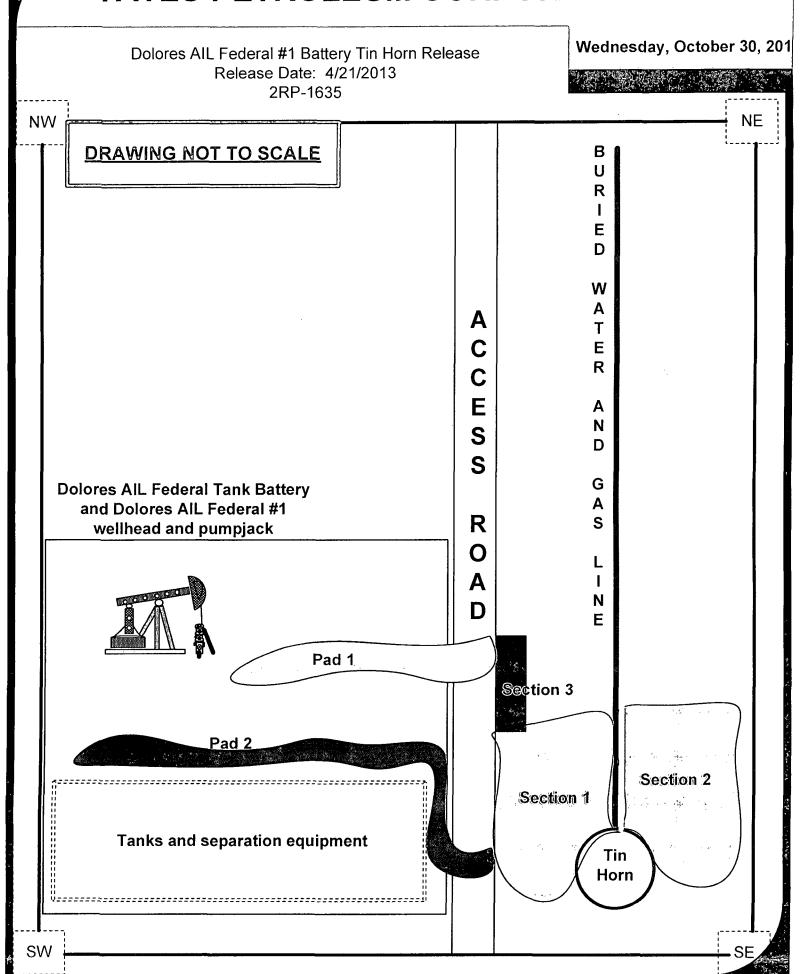
RECEIVED

Form C-141 Revised October 10, 2003

OCT 3 0 2013 ubmit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form **NMOCD ARTESIA** side of form

			Rel	ease Notitic	eatic	on and Co	orrective A	ction					
				OF	PER	ATOR		☐ Initi	al Report	Final Report			
Name of Co		_		OGRID Num	ber	Contact							
Yates Petro	leum Corp	oration		25575			Amber Cannon						
Address 105 S. 4 <sup>TH</sup> S	Street					Telephone No. 575-748-1471							
Facility Na	me			API Number		Facility Typ	oe .						
Dolores AI	L Federal #	#1		30-015-26547	7	Battery							
Surface Ow Federal	ner			Mineral O Federal	wner	•		Lease NM-6					
				LOCA	TIC	ON OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/West Line	County				
A	14	22S	31E	660'		North	430'	East	Eddy				
				Latitude 32.3	9694	Longitude	e 103.74086						
				NAT	URI	E OF REL	EASE						
Type of Rele Produced Wa		Oil				Volume of 20 B/PW;		Volume 0 B/PW	Recovered 0 B/O				
Source of Re Poly pipe on	lease			Maria de la compania		Date and F 4/21/2013;	lour of Occurrence		Hour of Discovery				
Was Immedi						If YES, To		4/21/201	15, 1111				
D., Wh 2			Yes L	No 🛛 Not Re	quire	d NA Date and F							
By Whom? NA						NA							
Was a Water	course Read		Yes 🛭	No		If YES, Vo	olume Impacting	the Watercourse.					
If a Watercou	ırse was Im	pacted, Descr				······································		·····					
	se of Probl	em and Reme	dial Action	n Taken.*									
	e ruptured o	n main water			off, tar	nk valves were	shut and personn	el made sure there	was no continuation	of a spill.			
Describe Are	a Affected	and Cleanup A			,				-				
An approxim	ate area of l across the l	36′ X 100′.  1 lease road and	he release onto the l	was around the till Dolores Battery pro	n horr oduct	n to the east (ac ion pad. All af	ross the lease roa fected areas will	d) of the Dolores have initial clean-	battery. Some of the up completed, and al	released I excavated			
soils will be	disposed of	at an approve	d NMOCI	facility. Vertical	l and l	horizontal delir	neation samples w	ill be taken and so	ent to a NMOCD app	oroved			
									ection Area: No, Di etter for additional				
information.													
I hereby certi	fy that the i	nformation gi are required to	ven above o rebort an	is true and comple d/or file certain re	ete to	the best of my notifications ar	knowledge and u	nderstand that pur	suant to NMOCD ru leases which may en	iles and danger			
public health	or the envir	onment. The	acceptance	e of a C-141 repor	rt by tl	he NMOCD ma	arked as "Final R	eport" does not re	lieve the operator of	liability			
should their o	perations h	ave failed to a	dequately	investigate and re	media	nte contaminati	on that pose a thr	eat to ground water	er, surface water, hun	nan health			
federal, state,				tance of a C-141 re	ероп	does not reliev	e the operator of	responsibility for o	compliance with any	other			
	Λ	$\circ$	-				OIL CON	SERVATION	DIVISION				
Signature:	Imbe	u Can	nn	W-11.									
Printed Name	: Amber Ca	nnon		· · · · · · · · · · · · · · · · · · ·		Approved by	District Supervise	or:					
Title: Enviror	nmental Reg	gulatory Agen	t			Approval Dat	e:	Expiration	Date:				
E-mail Addre	ss: acannon	@yatespetrol	eum.com			Conditions of	Approval:		Attached				
Date: Monday				: 575-748-4111		2RP-1635							
Attach Addit	ional Shee	ts If Necess	arv										

## YATES PETROLEUM CORPORATION



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

#### Cardinal Laboratories

Analytical Report- H301096	Sample Area	Sample Date	Sample Type	Depth	втех	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

INTERVAL WAS EXCAUSED AND HOULED to DISP

Analytical Report- H302033	Sample Area	Sample Date	Sample Type	Depth	Chlorides	·
Dolores 2-1	Release Area	8/22/2013	GRAB	1'	3,200	X
Dolores 2-2	Release Area	8/22/2013	GRAB	2'	3,600	
Dolores 2-3	Release Area	8/22/2013	GRAB	3'	2,080	Section 2
Dolores 2-4	Release Area	8/22/2013	GRAB	4'	4,120	Section 2 /Pemoed to
Dolores 2-5	Release Area	8/22/2013	GRAB	5'	720	4'
Dolores 2-6	Release Area	8/22/2013	GRAB	6'	16	/ <sup>7</sup>
Dolores 3-1	Release Area	8/22/2013	GRAB	1'	704	
Dolores 3-2	Release Area	8/22/2013	GRAB	2'	1,100	section 3
Dolores 3-3	Release Area	8/22/2013	GRAB	3'	1,600	
Dolores 3-4	Release Area	8/22/2013	GRAB	4'	9,040	No Delineation
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	

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



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 <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. Kena

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:

05/10/2013

Sampling Type:

Soil

Project Name:

**DELORES AIL FEDERAL BATTERY** 

Project Number:

30-015-26547

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

Project Location:

**EDDY COUNTY** 

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

Chloride.	SM4500CI-B
	21.1420001 5

mg/kg

Analyzed By: DW

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS

% Recovery 104

True Value QC

Qualifier

Chloride

144

Result

288

Result

368

Result

21200

16.0

05/10/2013

ND

416

400

RPD

3.77

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

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyzed

BS

% Recovery

True Value QC

Qualifier

Chloride

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit 05/10/2013 Method Blank ND

416

104

400

RPD

3.77

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

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed

05/10/2013

05/10/2013

Analyzed By: DW

Method Blank

ND

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

ND

416

104

400

3.77

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

Analyte

Analyzed

Method Blank

BS 416 % Recovery

104

True Value QC 400

RPD 3.77

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keens





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:

Analyte

Analyte

**EDDY COUNTY** 

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

% Recovery

True Value OC

Qualifier

Chloride

Result 6160 Reporting Limit 16.0

Analyzed 05/10/2013 Method Blank ND

BS 416

104

400

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Method Blank

BS

% Recovery

True Value QC

Qualifier

Chloride

Result 1780 Reporting Limit 16.0

Analyzed 05/10/2013

ND

416

104

400

RPD 3.77

RPD

3.77

Cardinal Laboratories

\*=Accredited Analyte

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Celecy & Freena



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 & Keens

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

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

HAIN OF CUSTODY	RECORD AND	<b>ANALYSIS</b>	REQUEST

Dolores AlL Federal Battery Project Manager: Amber Cannon Company Name Yates Petroleum Corporation Project #: 30-015-26547 **Eddy County** Company Address: 105 South 4th Street Project Loc: Artesia, NM 88210 1032020 City/State/Zip: Report Format: X Standard TRRP NPDES Telephone No: 575-748-4111 Fax No: Carmon Sampler Signature: ( Limbour acannon@yatespetroleum.com e-mail: Analyze For: "ab use only) TCLP: order# H301096 RUSH TAT (Pre-Schedule) 24, 48, 72 hrs TOTAL: Preservation & # of Containers Matrix Beginning Depth Ending Depth **FIELD CODE** 1' 5/6/2013 12:00 PM D-1' X. 5/6/2013 12:00 PM D-2' 1 X S 3 3' D-3<sup>1</sup> 3' 5/6/2013 12:00 PM S D-4' 4' 4' 5/6/2013 12:00 PM 1 X S Х X D-5' 5 5 5/6/2013 12:00 PM S 6' 6' S D-6' 5/6/2013 12:00 PM 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? Date Relinquished by: 5/8/13 COA-N N N Fedex Lone Star Sample Hand Delivered by Sampler/Client Rep. ? by Couner? UPS DHL Relinguished by: Date -Date Time Received by ELOT Date: Time Relinguished by: Temperature Upon Receipt:



May 10, 2013

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: DELORES AIL FEDERAL BATTERY

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Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

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Celes & Keens

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:

05/10/2013

Sampling Type:

Soil

Project Name:

DELORES AIL FEDERAL BATTERY

501

Project Number:

30-015-26547

Sampling Condition:

Cool & Intact

Project Location:

EDDY COUNTY

Sample Received By:

Jodi Henson

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

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/	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	95.49	65.2-140	9						
Surrogate: 1-Chlorooctadecane	103 %	6 63.6-154	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Kune



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-2' (H301096-02)

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	105 %	% 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	95.6 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	99.79	63.6-154	4						

#### Cardinal Laboratories

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Celay & 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:

Sampling Type:

Soil

05/10/2013

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-3' (H301096-03)

BTEX 8021B	mg,	/kg	Analyzo	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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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 (PIL	108 %	6 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	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	)	***.	•				14.00
Surrogate: 1-Chlorooctadecane	96.6 %	6 63.6-15-	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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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:

05/10/2013

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-4' (H301096-04)

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	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	90.69	6 65.2-140	)						
Surrogate: 1-Chlorooctadecane	93.3 9	63.6-15	<i>‡</i>						

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\*=Accredited Analyte

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Celeg & Kune



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)

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						<u>.</u>
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 9	65.2-140	)						
Surrogate: 1-Chlorooctadecane	100 %	63.6-15-	<i>t</i>						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keena



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

Fax To:

(505) 748-4635

Received:

05/08/2013

05/10/2013

Reported: 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-6' (H301096-06)

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	107 %	6 89.4-12	6						
TPH 8015M	mg/	kg	Analyzed By: MS					W	
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 9	65.2-140	)			T			
Surrogate: 1-Chlorooctadecane	87.2 %	63.6-154	<i>t</i>						

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\*=Accredited Analyte

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Celey D. Keene



#### **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  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keens

## ARDINAL LABORATORIES

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Р	roject Manager:	Amber Canno	on			·										Project Name				ne: Dolores AlL Federal Battery										
С	Company Name	Yates Petrole	um Corpora	ation	<u> </u>			1						Project#				#:30-015-26547										_[6		
C	Company Address:	h Street															Project Loc:				Eddy County									
c	City/State/Zip: Artesia, NM 88210					<u> </u>		4.	•												. `									
Т	elephone No:	575-748-411	1				Fax No:	}								Re	port l	orm	at:	X	Stan	dard			TRF	₹P			PDES	-
5	Sampler Signature:	amber	- Carr	nor	Λ		e-mail:	a	can	ino	n@	yat	esp	etro	leu	m.c	<u>om</u>					[ 								
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LAB # (lab.use.only)				Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered						ontaine	oecify)	DW=Drinking Water SL=Studge	Specify Other	418.1 8015M 8015B	TPH: TX 1005 IX 1000	Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	es obtilos	BTEX 8021B/5030 or BTEX 8260		.М.	des		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	ard TAT
. AB	FIE	LD CODE		Begin	Endi	Date	Tim	Field F	Total #	S S	豆	H,SO	NaO	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> None	Other	DW=Dr	NP=No		TPH:	Anlons	SAR /	Metals	Volatiles	BTEX	ည္	N.O.R.M.	Chlorides	SAR	RUS	Stand
_1		D-1'		1'	1'	5/6/2013	12:00 PM		1 X						$\bot$		s	Х				·		X			X			Х
_2		D-2'		2'	2'	5/6/2013	12:00 PM		1 ×		1			₫.	1_	:	s_	x						X	1_		X	$\perp$	$\perp$	Х
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5		D-5'		5'	5'	5/6/2013	12:00 PM		1)		1	_			1	<u> </u>	s_	X	_ .	1	_		$\perp$	X	1_	┴	X	4	1	X
b		D-6'	·	6'	6'	5/6/2013	12:00 PM		1)	<u> </u>	_	1				<u> </u>	<u>s_</u>	X	4		L			X	4	1_	X			X
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Special I	Instructions:		: 8015B, B7 separate re				s. Please sh	ow I	3TE	X re	sult	s as	mg	/kg.	Plea	se pi	ut ch	oride		Same	le C	ontai	ners	ents: lotact	12			9		
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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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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.

Celey & 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

Project Name:

DOLORES AIL FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

30-015-26547

4120

16.0

Sample Received By:

Project Location:

EDDY COUNTY, NM

Jodi Henson

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

Chloride, SM4500CI-B	mg	g/kg	Analyz	ed 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	2 (H302033-02	2)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	3 (H302033-03	3)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500Cl-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

416

104

400

#### Cardinal Laboratories

Chloride

\*=Accredited Analyte

3.92

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08/28/2013

Celeg D. Keene



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

Analyzed By: DW

(505) 748-4635

Received:

08/23/2013

Sampling Date:

08/22/2013

Reported:

Chloride, SM4500CI-B

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

mg/kg

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

Cinoriacy of this order of		9							
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	5 (H302033-0	6)							
Chloride, SM4500CI-B	mg	ı/kg	Analyz	ed 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	. (Н302033-07	<b>'</b> )							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW	<u></u>				
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	3)							
•	(H302033-08	•	Analyze	d By: DW					<u> </u>
•	•	•	<b>Analyze</b> Analyzed	d By: DW  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500CI-B  Analyte	mg,	/kg			BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Sample ID: DOLORES 3-2 Chloride, SM4500CI-B  Analyte  Chloride  Sample ID: DOLORES 3-3	Result	Reporting Limit	Analyzed	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B  Analyte  Chloride	Result	Reporting Limit 16.0	Analyzed 08/28/2013	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B  Analyte  Chloride  Sample ID: DOLORES 3-3	mg, Result 1100 (H302033-09	Reporting Limit 16.0	Analyzed 08/28/2013	Method Blank ND		•	•		Qualifier

Cardinal Laboratories

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Celey & 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:

08/29/2013

Sampling Type:

Soil

DOLORES AIL FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Name: Project Number:

30-015-26547

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

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

Chloride,	SM4500CI-B
-----------	------------

#### mg/kg

#### Analyzed By: DW

Analyte

Result

9040

Reporting Limit 16.0

Analyzed 08/29/2013

ND

Method Blank

BS 448 % Recovery 112

True Value QC 400

Qualifier

Chloride

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

#### Analyzed By: DW

Analyte

Chloride, SM4500CI-B

Reporting Limit Result

Analyzed

Method Blank

ND

RPD

3.64

RPD

3.64

Qualifier

Chloride

784

16.0 08/29/2013

RS 448 % Recovery 112

True Value QC 400

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

Chloride, SM4500CI-B

Analyte

Analyzed By: DW

Result

Reporting Limit

16.0

Analyzed

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

304

08/29/2013

ND

BS 448

112

400

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

3.64

Analyte

Result

2160

Result

800

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 08/29/2013

Analyzed

08/29/2013

Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD 3.64 Oualifier

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

Chloride, SM4500CI-B

Cardinal Laboratories

Analyte

Analyzed By: DW

Method Blank

ND

BS

448

% Recovery

112

True Value QC

400

RPD

3,64

\*=Accredited Analyte

Qualifier

Chloride

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Celey D. Kune



#### **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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keens

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

	Project Manager:	Amber Cannon	. ·															Proje	ct N	ame	, 	D	olore	es A	<u>IL F</u>	eder	al#	<u>1 (Ti</u>	n Hc	rn)_	
	Company Name	Yates Petroleum	Corporation	n												Project#:					30-015-26547										
	Company Address:	105 South 4th St	reet	· · · · · · · · · · · · · · · · · · ·												Pre	Loc	ec: Eddy County													
	City/State/Zip:	Artesia, NM 882	210					·									PO#									Ó <b>3-</b> 2	2020			**	
	Telephone No:	575-748-4111 o	575-513-87	99			Fax No:	5	75-7	48-	1131	1					Re	port l	-orn	nat:	x	Sta	ndar	d	Г	ТЕ	RRP	<u>-</u>	7	IPDES	
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ab use only) DRDER #: H 3D 7O 33									_	Pre	serva	ation	&#c	f Cont	ainers		Mat	rix	1 25	_		CLP: DTAL:	Se	+						3, 72 hrs	
LAB# (lab.use only)		ELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers			HCI		)3		-	DW=Drinking Water SL=Sludge	Specify Other	· 418.1 8015M	TPH: TX 1005 TX 1006	Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb·Hg S	Volatiles	Semivolatiles	BTEX 8021B/5030 or BIEA 826	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 46	Standard TAT
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				2'	2'	8/22/2013	2:02 PM	$\sqcup$	1	4	_	_	$\downarrow$		$\sqcup$	_		3		_		_	$oldsymbol{\perp}$		$\dashv$	$\perp$	4	x	Ш		X
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