



April 7, 2017

#5E25868-BG4

Mike Bratcher
Environmental Specialist
NMOCD District II
1301 W Grand Ave
Artesia, NM 88210

SUBJECT: FINAL CLOSURE REPORT FOR INCIDENT 2RP-1972, Steelers BRS State #001H, UNIT P SECTION 24-T20S-R27E NMPM, API# 30-015-39673, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of EOG Y Resources, Inc. (EOG), Souder Miller & Associates (SMA) is pleased to submit Final Closure Report summarizing the remediation of the release site located by the Steelers BRS State #001H in Eddy County, New Mexico. The purpose of this Final Closure is to obtain closure from the New Mexico Oil Conservation Division (NMOCD) for the remediation of the release that occurred on state lands on September 22, 2013.

SMA responded at the request of EOG, to assess, delineate and remediate the soils from the release of production fluids associated with Steelers BRS State #001H well location. The release was initially reported to NMOCD by Yates Petroleum Corporation, on September 22, 2013 and was a result of an equipment failure. The table below summarizes information regarding the release. Results of the assessment, delineation, and remedial activities following in the Closure Report.

Table 1: Release information and Site Ranking					
Name	Steelers BRS State #001H				
Location	Incident Number	API Number	Section, Township, Range		
		2RP-1972	30-015-39673	SE/SE (Unit P)	Section 24
Estimated Date of Release	September 22, 2013				
Date Reported to NMOCD	September 23, 2013				
Reported by	Lupe Carrasco				
Land Owner	State				
Reported To	NM Oil Conservation Division (NMOCD)				
Source of Release	Produced water tank valve				
Released Material	Produced Water and oil				
Released Volume	25 bbls of oil and 155 bbls of produced water				
Recovered Volume	22 bbls of oil and 128 bbls of produced water				
Nearest Waterway	Greater than 1,000 feet				
Depth to Groundwater	Estimated to be 75 feet				

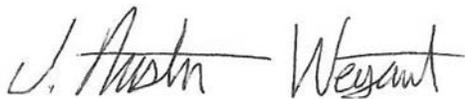


Nearest Domestic Water Source	Greater than 1,000 feet
NMOCD Ranking	10
SMA Response Dates	Initial: 03/06/2017

A copy of the C-141 Initial is attached in Appendix B. For questions or comments pertaining to the release or the attached work plan, please feel free to contact either of us.

Submitted by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist

Reviewed by:



Cynthia Gray, CHMM
Senior Scientist

SOIL REMEDIATION FINAL CLOSURE REPORT FOR INCIDENT 2RP-1972 EOG Y RESOURCES, INC.

STEELERS BRS STATE #001H
UL P, SECTION 24, T20S R27E, NMPM
API #30-015-39673
EDDY COUNTY, NM



Prepared for:
EOG Y Resources, Inc.
105 South Fourth Street
Artesia, NM 88210

Prepared by:
Souder, Miller & Associates
201 S. Halagueno
Carlsbad, NM 88221
575-689-7040

April 7, 2017
SMA Reference
5E25868 BG4

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Table 1: Release Information and Site Ranking

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1.0 Introduction

On behalf of EOG Y Resources, Inc. (EOG), Souder, Miller & Associates (SMA) has prepared this report that describes the assessment, initial delineation and remediation actions for a release associated with the Steelers BRS State #001H location API# 30-015-39679. The site is in Section 24, Township 20S, Range 27E NMPM, Eddy County, New Mexico, on state lands. Figure 1 illustrates the vicinity and location of the site.

2.0 Site Ranking, Land Status, and Jurisdiction

The release site is located approximately 3.2 miles north of Lake Avalon, with an elevation of approximately 3,349 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 75 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. Eighteen wells are located within a three-mile radius of the site. These wells show groundwater at about 30 feet bgs, but the elevational difference puts groundwater at location at 75 feet bgs. Figure 1 depicts the site vicinity and OSE well depths, and Figure 2 shows the site itself. The physical location of this release is on private property and is within the jurisdiction of NMOCD.

Based on the NMOCD Guidelines Ranking Criteria, this release location has been assigned an NMOCD ranking of 10 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 1,000 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates the site ranking rationale.

3.0 Assessment and Initial Results

In 2013, immediately after the release, Yates Petroleum field personnel had the impacted soils sampled. The potentially affected area was found to be approximately 1000 feet long and 40 feet wide. Five locations were sampled. P1 and P2 on the pad, R1 and R2 on the lease road, and SW1 on the adjacent well pad. Impacted soils were then scraped and hauled off to an OCD approved facility. On March 6, 2017, SMA field personnel returned to the site to assess the site area using a mobile chlorides titration kit EPA method 9045D meter. Site delineation samples were taken to depths of two feet bgs. All samples were collected and processed according to NMOCD soil sampling procedures and sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for Total Chlorides using EPA Method 300.0.

4.0 Soil Remediation Summary

On March 6, 2017 SMA field personnel sampled the Steelers BRS State #001 at sample locations that previously showed elevated chlorides. Sampling was designed to confirm that the Yates/EOG efforts of 2013 had removed impacted soils. Table 2 illustrates both the Yates 2013 sampling as well as SMA confirmation samples.

5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 10: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 1,000 ppm TPH.

Laboratory analytical results for the closure sample collected on October 8, 2013 were below NMOCD closure standards for benzene, BTEX, and TPH. Closure samples collected by SMA for chlorides ranged from 30 mg/Kg to 550 mg/Kg.

No further remedial activities are recommended. Soil sample locations are illustrated in Figure 2. A summary of laboratory analytical results is included in Table 2. Laboratory reports are included in Appendix A.

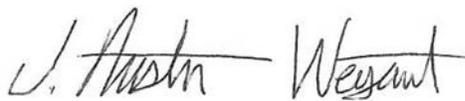
6.0 Closure and Limitations

The scope of our services consisted of the performance of release assessment, initial delineation sampling and field screening, verification of release stabilization, regulatory liaison, and preparation of this Closure Plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Shawna Chubbuck at 970-565-4465 ext. 1504.

Submitted by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist

Reviewed by:



Shawna Chubbuck
Senior Scientist

Figures:

Figure 1: Vicinity Map

Figure 2: Site and Sample Location Map

Tables:

Table 1: Release Information and Site Ranking

Table 2: Summary of Laboratory Analyses

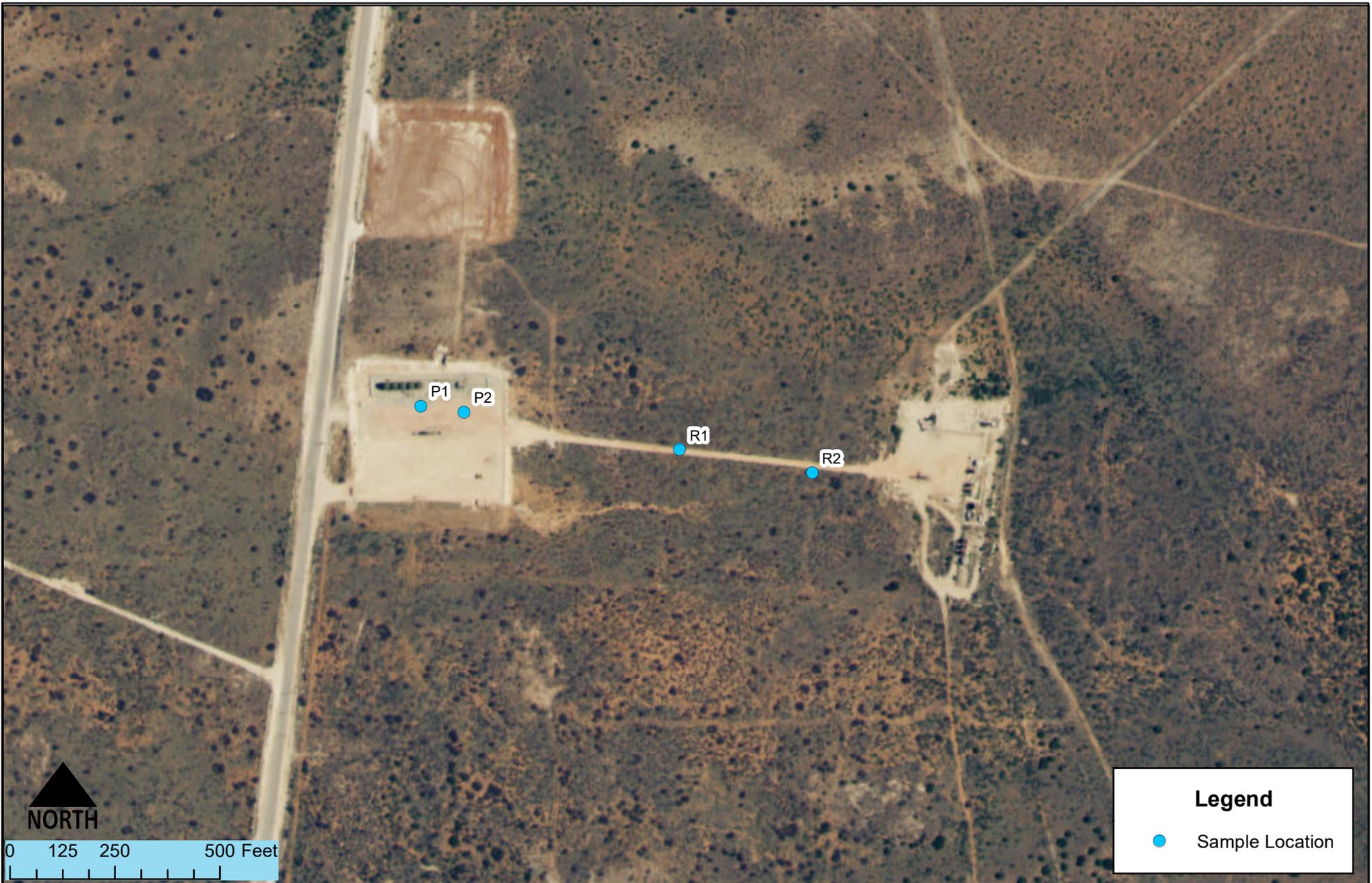
Appendices:

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Final

FIGURE 1 VICINITY MAP

FIGURE 2
DETAILED SITE AND SAMPLE
LOCATION MAP



Sample Location Map
 Steelers BRS State #1 - EOG
 S 24-T20S-R27E, New Mexico

Figure 2

Date Saved: 3/20/2017
 By: _____ Date: _____
 By: _____ Date: _____
 Copyright 2015 Souder, Miller & Associates - All Rights Reserved

Revisions
 Descr: _____
 Descr: _____
 Drawn Heather Patterson
 Checked _____
 Approved _____



201 South Halaguena Street
 Carlsbad, New Mexico 88221
 (575) 689-7040
 www.soudermiller.com
 Serving the Southwest & Rocky Mountains

YATES PETROLEUM CORPORATION

Monday, December 02, 2013

Steelers BRS State #1H

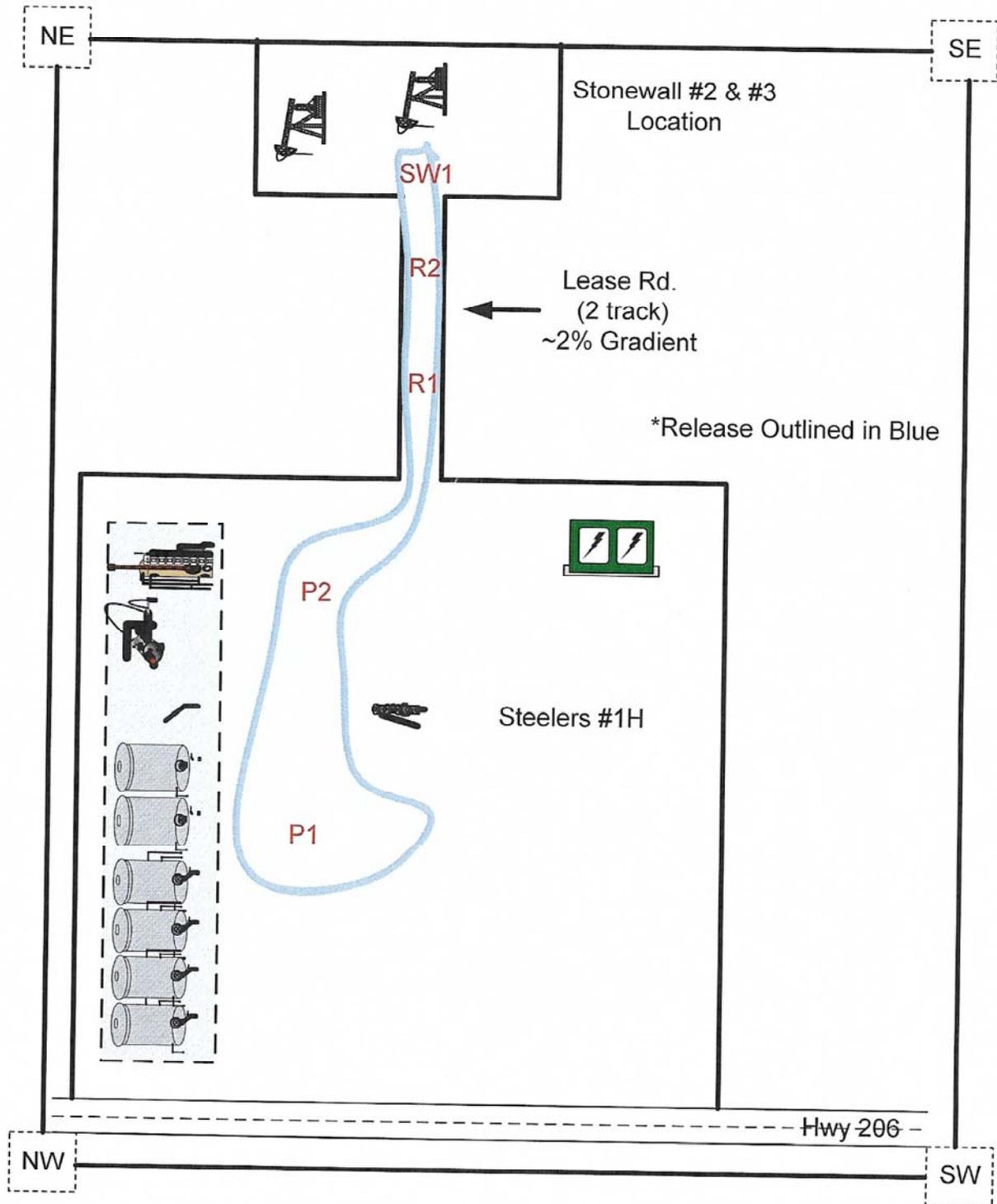


TABLE 1
RELEASE INFORMATION AND
SITE RANKING

EOG Y Resources
Table 2: Site Ranking

Steelers BRS State #1
Produced Water Release
3/26/2017

Site Ranking Determination Table

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	10	USGS Topo Maps; Google Earth , NMOSE database	average depth of ground water is 75 feet bgs
50' to 99' = 10			
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20	0	USGS Topo Maps; Google Earth ; ArcMap	nearest surface water 3.2 miles north of Lake Avalon
200' - 1000' = 10			
>1000' = 0			
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
<1000' from a water source? <200' from a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	0	NM State Engineer Water Well Database	nearest well over 1 mile from location
	0		
Total Site Ranking	10		
Soil Remedation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM



TABLE 2
SUMMARY OF LABORATORY
ANALYSES

Summary of Laboratory Analyses

Table 2.

Sample Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	Total TPH mg/Kg	Cl- Field Screens (ppm)	Cl- Laboratory mg/Kg
NMOCD RRAL's for Site Ranking 10				50 mg/Kg	10 mg/Kg			1000 mg/Kg		
SW1	10/8/2013	1	in-situ	<0.3	<0.05	<10	<10	<20	--	400
	10/8/2013	2	in-situ	<.3	<0.05	<10	<10	<20	--	244
R1	10/8/2013	1	in-situ	<.3	<0.05	<10	<10	<20	--	80
	10/8/2013	2	in-situ	<.3	<0.05	<10	<10	<20	--	304
	3/6/2017	1	in-situ	--	--	--	--	--	--	550
R2	10/8/2013	1	excavated	<.3	<0.05	<10	<10	<20	--	4080
	10/8/2013	2	in-situ	<.3	<0.05	<10	<10	<20	--	80
	10/8/2013	3	in-situ	<.3	<0.05	<10	<10	<20	--	176
	3/6/2017	1	in-situ	--	--	--	--	--	--	110
	3/6/2017	2	in-situ	--	--	--	--	--	--	140
P1	10/8/2017	1	excavated	<.3	<0.05	<10	<10	<20	--	976
	10/8/2017	2	excavated	<.3	<0.05	<10	<10	<20	--	2240
	10/8/2017	3	excavated	<.3	<0.05	<10	<10	<20	--	2920
	3/6/2017	1	in-situ	--	--	--	--	--	--	<30
	8/30/2017	2	in-situ	--	--	--	--	--	986	--
	8/30/2017	3	in-situ	--	--	--	--	--	678	--
P2	10/3/2013	1	in-situ	<.3	<0.05	<10	<10	<20	--	272
	10/3/2013	2	in-situ	<.3	<0.05	<10	<10	<20	--	320
	3/6/2017	1	in-situ	--	--	--	--	--	--	590
BG	3/6/2017	0.5	in-situ	--	--	--	--	--	--	<30

"--" = Not Analyzed

APPENDIX A

LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 27, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: EOG Steelers State 1H

OrderNo.: 1703596

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/11/2017 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 24, 2017.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1703596

Date Reported: 3/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Project: EOG Steelers State 1H

Lab Order: 1703596

Lab ID: 1703596-003

Collection Date: 3/6/2017

Client Sample ID: R1-1

Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride 550 30 mg/Kg 20 3/17/2017 12:05:51 PM 30754

Lab ID: 1703596-004

Collection Date: 3/6/2017

Client Sample ID: R2-1

Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride 110 30 mg/Kg 20 3/17/2017 12:18:15 PM 30754

Lab ID: 1703596-005

Collection Date: 3/6/2017

Client Sample ID: R2-2

Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride 140 30 mg/Kg 20 3/17/2017 12:30:40 PM 30754

Lab ID: 1703596-006

Collection Date: 3/6/2017

Client Sample ID: P1-1

Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride ND 30 mg/Kg 20 3/17/2017 12:43:04 PM 30754

Lab ID: 1703596-007

Collection Date: 3/6/2017

Client Sample ID: P2-1

Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride 590 30 mg/Kg 20 3/17/2017 12:55:29 PM 30754

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Table with 2 columns: Qualifiers and descriptions. Includes codes like *, D, H, ND, R, S, B, E, J, P, RL, W and their corresponding meanings.

Analytical Report

Lab Order: **1703596**

Date Reported: **3/27/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Project: EOG Steelers State 1H

Lab Order: 1703596

Lab ID: 1703596-008

Collection Date: 3/6/2017

Client Sample ID: BG-0.5

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
-----------------	---------------	------------	-------------	--------------	-----------	----------------------	-----------------

EPA METHOD 300.0: ANIONS

Analyst: **MRA**

Chloride	ND	30		mg/Kg	20	3/17/2017 1:07:54 PM	30754
----------	----	----	--	-------	----	----------------------	-------

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:							
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank				
D	Sample Diluted Due to Matrix	E	Value above quantitation range				
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits				
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range				
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit				
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified				

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703596

27-Mar-17

Client: Souder, Miller & Associates

Project: EOG Steelers State 1H

Sample ID MB-30754	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 30754		RunNo: 41494							
Prep Date: 3/17/2017	Analysis Date: 3/17/2017		SeqNo: 1301123		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID LCS-30754	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 30754		RunNo: 41494							
Prep Date: 3/17/2017	Analysis Date: 3/17/2017		SeqNo: 1301124		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1703596

RcptNo: 1

Received by/date: [Signature] 03/11/17

Logged By: Lindsay Mangin 3/11/2017 8:15:00 AM [Signature]

Completed By: Lindsay Mangin 3/13/2017 9:25:33 AM [Signature]

Reviewed By: [Signature] 03/13/17

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C? Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH: _____
(Note discrepancies on chain of custody) (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? _____
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by: _____
(If no, notify customer for authorization.)

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	17.8	Good	Not Present			

Chain-of-Custody Record

Client: SM A - CARSON

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation

NELAP Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:

EOG Steelers State III

Project #:

Project Manager:

Austin Weyant

Sampler:

On Ice: Yes No

Sample Temperature:

17.8

Date Time Matrix Sample Request ID

3/6/17 soil SW1-1 402
SW1-2
R1-1
R2-1
R2-2
P1-1
P2-1
BG-0.5

Container Type and #

402
~
~
~
~
~
~
~

Preservative Type

-
-
-
-
-
-
-
-

HEAL No.

17035948

Date: Time: Relinquished by:

3/6/17 17:00 Austin Weyant

Received by:

Date Time

[Signature] 3/17/17 0815

Date: Time: Relinquished by:

Date Time

[Signature] 3/17/17 0815

Analysis Request

BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH 8015B (GRO / DRO / MRO)	
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	X
8081 Pesticides / 8082 PCB's	X
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles (Y or N)	

Remarks:

EOG Yates Pates



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

October 10, 2013

LUPE CARRASCO

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: STEELERS BRS #1H

Enclosed are the results of analyses for samples received by the laboratory on 10/07/13 13:17.

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

Cardinal Laboratories is 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 black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/07/2013
 Reported: 10/10/2013
 Project Name: STEELERS BRS #1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: P1-1' (H302423-01)

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	10/08/2013	ND	1.90	94.8	2.00	0.414	
Toluene*	<0.050	0.050	10/08/2013	ND	1.90	94.8	2.00	0.152	
Ethylbenzene*	<0.050	0.050	10/08/2013	ND	1.93	96.5	2.00	0.113	
Total Xylenes*	<0.150	0.150	10/08/2013	ND	5.83	97.2	6.00	0.0192	
Total BTEX	<0.300	0.300	10/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PII) 119 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	10/08/2013	ND	400	100	400	3.92	

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	10/07/2013	ND	192	95.8	200	0.902	
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160	

Surrogate: 1-Chlorooctane 95.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 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 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
 LUPE CARRASCO
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 10/07/2013
 Reported: 10/10/2013
 Project Name: STEELERS BRS #1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: P1-2' (H302423-02)

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	10/08/2013	ND	1.90	94.8	2.00	0.414		
Toluene*	0.060	0.050	10/08/2013	ND	1.90	94.8	2.00	0.152		
Ethylbenzene*	<0.050	0.050	10/08/2013	ND	1.93	96.5	2.00	0.113		
Total Xylenes*	<0.150	0.150	10/08/2013	ND	5.83	97.2	6.00	0.0192		
Total BTEX	<0.300	0.300	10/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	10/08/2013	ND	400	100	400	3.92		

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	10/07/2013	ND	192	95.8	200	0.902		
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160		

Surrogate: 1-Chlorooctane 81.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.2 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/07/2013
 Reported: 10/10/2013
 Project Name: STEELERS BRS #1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: P1-3' (H302423-03)

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	10/08/2013	ND	1.90	94.8	2.00	0.414		
Toluene*	0.058	0.050	10/08/2013	ND	1.90	94.8	2.00	0.152		
Ethylbenzene*	<0.050	0.050	10/08/2013	ND	1.93	96.5	2.00	0.113		
Total Xylenes*	<0.150	0.150	10/08/2013	ND	5.83	97.2	6.00	0.0192		
Total BTEX	<0.300	0.300	10/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	10/08/2013	ND	400	100	400	3.92		

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	10/07/2013	ND	192	95.8	200	0.902		
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160		

Surrogate: 1-Chlorooctane 81.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/07/2013
 Reported: 10/10/2013
 Project Name: STEELERS BRS #1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: P2-1' (H302423-04)

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	10/08/2013	ND	1.90	94.8	2.00	0.414		
Toluene*	0.119	0.050	10/08/2013	ND	1.90	94.8	2.00	0.152		
Ethylbenzene*	<0.050	0.050	10/08/2013	ND	1.93	96.5	2.00	0.113		
Total Xylenes*	<0.150	0.150	10/08/2013	ND	5.83	97.2	6.00	0.0192		
Total BTEX	<0.300	0.300	10/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PII) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	10/08/2013	ND	400	100	400	3.92		

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	10/07/2013	ND	192	95.8	200	0.902		
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160		

Surrogate: 1-Chlorooctane 82.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/07/2013
 Reported: 10/10/2013
 Project Name: STEELERS BRS #1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: P2-2' (H302423-05)

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	10/08/2013	ND	1.90	94.8	2.00	0.414		
Toluene*	<0.050	0.050	10/08/2013	ND	1.90	94.8	2.00	0.152		
Ethylbenzene*	<0.050	0.050	10/08/2013	ND	1.93	96.5	2.00	0.113		
Total Xylenes*	<0.150	0.150	10/08/2013	ND	5.83	97.2	6.00	0.0192		
Total BTEX	<0.300	0.300	10/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/08/2013	ND	400	100	400	3.92		

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	10/07/2013	ND	192	95.8	200	0.902		
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160		

Surrogate: 1-Chlorooctane 87.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.8 % 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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Celey D. Keene, Lab Director/Quality Manager



October 14, 2013

LUPE CARRASCO

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: STEELERS BRS #1H

Enclosed are the results of analyses for samples received by the laboratory on 10/09/13 14:50.

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

Cardinal Laboratories is 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
 LUPE CARRASCO
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 10/09/2013
 Reported: 10/14/2013
 Project Name: STEELERS BRS #1H
 Project Number: 103-163
 Project Location: NOT GIVEN

 Sampling Date: 10/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: R1-1' (H302445-01)
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	10/11/2013	ND	2.04	102	2.00	0.908	
Toluene*	0.186	0.050	10/11/2013	ND	2.06	103	2.00	0.355	
Ethylbenzene*	<0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252	
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172	
Total BTEX	<0.300	0.300	10/11/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.4 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/11/2013	ND	400	100	400	3.92	

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	10/10/2013	ND	194	96.8	200	4.49	
DRO >C10-C28	<10.0	10.0	10/10/2013	ND	188	94.1	200	2.47	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/09/2013
 Reported: 10/14/2013
 Project Name: STEELERS BRS #1H
 Project Number: 103-163
 Project Location: NOT GIVEN

 Sampling Date: 10/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: R1-2' (H302445-02)

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	10/11/2013	ND	2.04	102	2.00	0.908		
Toluene*	0.064	0.050	10/11/2013	ND	2.06	103	2.00	0.355		
Ethylbenzene*	<0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252		
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172		
Total BTEX	<0.300	0.300	10/11/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 96.5 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/11/2013	ND	400	100	400	3.92		

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	10/10/2013	ND	194	96.8	200	4.49		
DRO >C10-C28	<10.0	10.0	10/10/2013	ND	188	94.1	200	2.47		

Surrogate: 1-Chlorooctane 96.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.8 % 63.6-154

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Analytical Results For:

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

 Received: 10/09/2013
 Reported: 10/14/2013
 Project Name: STEELERS BRS #1H
 Project Number: 103-163
 Project Location: NOT GIVEN

 Sampling Date: 10/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: R2-1' (H302445-03)

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	10/11/2013	ND	2.04	102	2.00	0.908		
Toluene*	0.095	0.050	10/11/2013	ND	2.06	103	2.00	0.355		
Ethylbenzene*	<0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252		
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172		
Total BTEX	<0.300	0.300	10/11/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.0 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	10/11/2013	ND	400	100	400	3.92		

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	10/10/2013	ND	194	96.8	200	4.49		
DRO >C10-C28	<10.0	10.0	10/10/2013	ND	188	94.1	200	2.47		

Surrogate: 1-Chlorooctane 93.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.4 % 63.6-154

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Analytical Results For:

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

 Received: 10/09/2013
 Reported: 10/14/2013
 Project Name: STEELERS BRS #1H
 Project Number: 103-163
 Project Location: NOT GIVEN

 Sampling Date: 10/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: R2-2' (H302445-04)

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	10/11/2013	ND	2.04	102	2.00	0.908		
Toluene*	0.292	0.050	10/11/2013	ND	2.06	103	2.00	0.355		
Ethylbenzene*	<0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252		
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172		
Total BTEX	<0.300	0.300	10/11/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.3 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/11/2013	ND	432	108	400	7.69		

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	10/10/2013	ND	194	96.8	200	4.49		
DRO >C10-C28	<10.0	10.0	10/10/2013	ND	188	94.1	200	2.47		

Surrogate: 1-Chlorooctane 92.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.1 % 63.6-154

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Analytical Results For:

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

 Received: 10/09/2013
 Reported: 10/14/2013
 Project Name: STEELERS BRS #1H
 Project Number: 103-163
 Project Location: NOT GIVEN

 Sampling Date: 10/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: R2-3' (H302445-05)

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	10/11/2013	ND	2.04	102	2.00	0.908		
Toluene*	0.148	0.050	10/11/2013	ND	2.06	103	2.00	0.355		
Ethylbenzene*	<0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252		
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172		
Total BTEX	<0.300	0.300	10/11/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.8 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/11/2013	ND	432	108	400	7.69		

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	10/10/2013	ND	194	96.8	200	4.49		
DRO >C10-C28	<10.0	10.0	10/10/2013	ND	188	94.1	200	2.47		

Surrogate: 1-Chlorooctane 84.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.5 % 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 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
 LUPE CARRASCO
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 10/09/2013
 Reported: 10/14/2013
 Project Name: STEELERS BRS #1H
 Project Number: 103-163
 Project Location: NOT GIVEN

 Sampling Date: 10/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW-1' (H302445-06)

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	10/11/2013	ND	2.04	102	2.00	0.908		
Toluene*	0.192	0.050	10/11/2013	ND	2.06	103	2.00	0.355		
Ethylbenzene*	<0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252		
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172		
Total BTEX	<0.300	0.300	10/11/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/11/2013	ND	432	108	400	7.69		

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	10/10/2013	ND	194	96.8	200	4.49		
DRO >C10-C28	<10.0	10.0	10/10/2013	ND	188	94.1	200	2.47		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/09/2013
 Reported: 10/14/2013
 Project Name: STEELERS BRS #1H
 Project Number: 103-163
 Project Location: NOT GIVEN

 Sampling Date: 10/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW-2' (H302445-07)

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	10/11/2013	ND	2.04	102	2.00	0.908		
Toluene*	0.128	0.050	10/11/2013	ND	2.06	103	2.00	0.355		
Ethylbenzene*	<0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252		
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172		
Total BTEX	<0.300	0.300	10/11/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.4 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/11/2013	ND	432	108	400	7.69		

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	10/10/2013	ND	194	96.8	200	4.49		
DRO >C10-C28	<10.0	10.0	10/10/2013	ND	188	94.1	200	2.47		

Surrogate: 1-Chlorooctane 92.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 93.1 % 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

Cardinal Laboratories

*=Accredited Analyte

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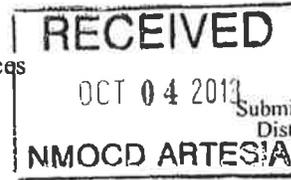


Celey D. Keene, Lab Director/Quality Manager

APPENDIX B
FORM C141
INITIAL AND FINAL

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

NJM 1328031435

OPERATOR

Initial Report Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Lupe Carrasco
Address 104 S. 4 TH Street		Telephone No. 575-748-1471
Facility Name Steelers BRS State #1H	API Number 30-015-39673	Facility Type Battery

Surface Owner State	Mineral Owner State	Lease No. VB-1077
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LOCATION OF RELEASE

Unit Letter P	Section 24	Township 20S	Range 27E	Feet from the 650	North/South Line South	Feet from the 200	East/West Line East	County Eddy
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Latitude 32.55339 Longitude -104.22626

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 25 B/O; 155 B/PW	Volume Recovered 22 B/O; 128 B/PW
Source of Release Produced Water Tank Valve	Date and Hour of Occurrence 9/22/2013 After 8 pm	Date and Hour of Discovery 9/23/2013 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, NMOCD II (email)	
By Whom? Bob Asher, Yates Petroleum Corporation	Date and Hour 9/23/2013 PM	
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.*
Cause of release is suspected from an unauthorized individual(s) opening a valve on the produced water tank. Vacuum trucks were dispatched. Backhoe dispatched to scrape impacted area.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 40' X 1000'. Impacted soils to be scraped up and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX, Chlorides will be run for documentation. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted. **Depth to Ground Water: <100' (approximately 75', Section 24-T20S-R27E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10.**

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.

OIL CONSERVATION DIVISION

Signature: *Lupe Carrasco*
Printed Name: Lupe Carrasco
Title: Environmental Regulatory Agent
E-mail Address: lcarrasco@yatespetroleum.com
Date: Friday, October 04, 2013 Phone: 575-748-1471

Approved by District Supervisor:
SIGNED BY: *Mike Bratcher*
Approval Date: **OCT 07 2013** Expiration Date:
Conditions of Approval:
Remediation per OCD Rule & Guidelines. **SUBMIT REMEDIATION PROPOSAL NO LATER THAN:** Attached

November 7, 2013 **2RP-1972**

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	EOG Resources	Contact	Zane Kurtz
Address	5509 Champions Dr, Midland, TX 79706	Telephone No.	432-686-3667
Facility Name	Steelers BRS State #1 H	Facility Type	Battery

Surface Owner	State	Mineral Owner	State	API No.	30-015-39673
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	24	20S	27E	650	South	200	East	Eddy

Latitude 32.55339 Longitude 104.22626 NAD83

NATURE OF RELEASE

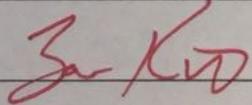
Type of Release	Oil and Produced Water	Volume of Release	25bbl/O; 155bbl	Volume Recovered	22bbl/oil 128bbl/pw
Source of Release	produced water tank valve	Date and Hour of Occurrence	9/22/13	Date and Hour of Discovery	9/23/2013
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Mike Bratcher				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date and Hour 9/23/2013			
If YES, Volume Impacting the Watercourse.					

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Cause of Release is suspected from an unauthorized individual opening a valve on the produced water tank. Vacuum trucks were dispatched. Backhoe dispatched to scrape impacted area.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 40' x 1000'. Impacted soils scraped and taken to NMOCD approved facility. All work completed as per NMOCD approved work plan.

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>OIL CONSERVATION DIVISION</u>	
Printed Name:	Zane Kurtz			Approved by Environmental Specialist:	
Title:	SR. Environmental Rep			Approval Date:	Expiration Date:
E-mail Address:	Zane_Kurtz@eogresources.com			Conditions of Approval:	
Date:	8/23/2017	Phone:	432-686-3667	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

2RP-1972