FINAL REMEDIATION REPORT Ross Gulch 8 Fed Com Well #2H

Eddy County, New Mexico 2RP-1486

LAI Project No. 16-0128-01

October 26, 2016

Prepared for:

EOG Resources, Inc. 5509 Champions Drive Midland, Texas 797067

Prepared by:

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WHITTHE OF PROFESSE

Mark J. Larson, P.G.

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1.0 INTRODUCTION

This report is prepared by Larson & Associates, Inc. (LAI) on behalf of EOG Resources, Inc. (EOG) for submittal to the New Mexico Oil Conservation Division (OCD) District 2 in Artesia, New Mexico. The report is submitted to confirm remediation of a crude oil spill at the Ross Gulch 8 Fed Com Well #2H (Site) located in Unit N (SE/4, SW/4), Section 8, Township 26 South, Range 31 East, in Eddy County, New Mexico. Texas. The geodetic position is North 32.0636885 and West -103.8035110. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

A crude oil spill occurred on December 6, 2012, after a separator dump valve malfunctioned and diverted liquids to the flare. EOG estimated the volume of the release at 10 barrels (bbl) of crude oil. Wind dispersed the release as a spray over the pasture covering an area about 100 yards (300 feet) by 150 yards (450 feet), according to the initial C-141. Free liquid was picked up with absorbent pads. The spill was treated with approximately 1,500 gallons of Microblaze® (4%). The initial C-141 was submitted to the OCD on December 12, 2012 and was approved on January 8, 2013. The OCD assigned the release remediation permit number 2RP-1486.

1.1 Setting

The setting is as follows:

- Elevation is approximately 3,280 feet above mean sea level (AMSL);
- Topography slopes toward the southwest;
- The nearest surface water feature is an unnamed drainage located about 350 feet west of the Site;
- The nearest fresh water well is located approximately 1,400 feet north in Unit K (NE/4, SW/4), Section 8, Township 26 South and Range 31 East;
- Depth to groundwater is reported at 275.96 feet below ground surface (bgs) according to records from the New Mexico Office of the State Engineer (NMOSE).

1.2 Remediation Action Levels (RRAL)

Remediation action levels (RRAL) were calculated for benzene, BTEX and TPH based on the following criteria established by the OCD (*Guidelines for Remediation of Leaks, Spills and Releases, August 13,* 1993):

Criteria	Result	Score
Depth-to-Groundwater	>100 Feet	0
Wellhead Protection Area	No	0
Distance to Surface Water	200 – 1,000 Horizontal Feet	10

The following RRAL apply to the release for ranking score: 10

Benzene 10 mg/Kg
 BTEX 50 mg/Kg
 TPH 1,000 mg/Kg

1.3 Soil Samples

On August 17 and 31, 2016, LAI personnel collected soil samples at six (6) locations (S-1 through S-6) and a background location (S-BG) southeast of the Site. The samples were collected with a stainless steel hand auger to about 6 inches bgs. On August 31, 2016, a sample was collected at S-2 from 12 to 18 inches to delineate total petroleum hydrocarbons (TPH) reported in the sample from 1 to 6 inches bgs. The samples were delivered under chain of custody and preservation to Permian Basin Environmental Laboratory (PBEL) and were analyzed for TPH including gasoline (GRO), diesel (DRO) and oil (ORO) range organics by EPA SW-846 Method 8015 and chloride by Method 300. The background sample (S-BG) was analyzed for chloride. Table 1 presents the analytical data summary. Figure 3 presents a Site drawing and sample location map. Appendix A presents the laboratory report.

Referring to Table 1, TPH was above the RRAL (1,000 mg/Kg) in samples S-1 (3,066.6 mg/kg), S-2 (11,248 mg/kg) and S-3 (3,090 mg/Kg). TPH was less than the method reporting limit (<29.4 mg/Kg) in sample S-2, 12 to 18 inches. The highest chloride concentration was reported in 0 to 6 inch sample S-1 (23.2 mg/Kg).

2.0 ADDITIONAL REMEDIATION

On October 4, 2016, personnel from SDR Enterprises (SDR) applied Oil Gator[®] oil absorbent with nutrients (nitrogen, sulphur and phosphorous) to enhance bioremediation by the indigenous soil bacteria. Oil Gator[®] was applied to an area measuring approximately 11, 487 square feet. SDR personnel tilled the area and applied water to promote bioremediation. Figure 4 presents the remediation area. Appendix B presents photographs.

3.0 CONCLUSIONS

Laboratory results demonstrate the impact is limited to the upper 6 to 12 inches of soil. Application of Oil Gator[®], tilling to 12 inches and watering will promote bioremediation of the residual hydrocarbons. The remediation area will be seeded with BLM seed blend no. 2. EOG requests no further action for this spill incident. Appendix A presents the initial and final C-141.

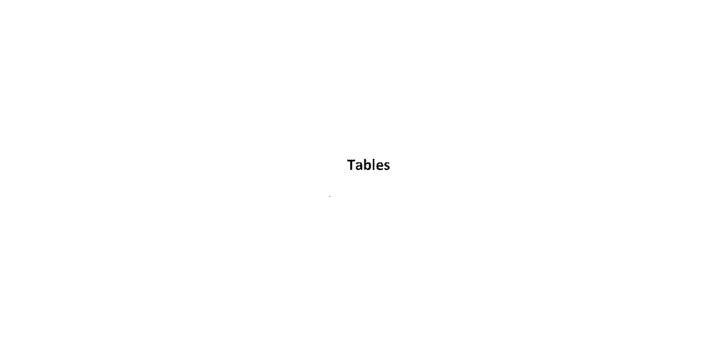


Table 1
Investigation Soil Sample Analytical Data Summary
EOG Resources, Inc., Ross Gulch 8 Fed Com Well #2H
Unit N (SE/4, SW/4), Section 8, Township 26 South, Range 31 East
Eddy County, New Mexico
2RP-1486

Sample	Depth	Collection	Status	GRO	DRO	ORO	ТРН	Chloride
	(Inches)	Date		C6-C12	>C12 - C28	>C28 - C36		
OCD RRAL:							1,000	
5-1	9-0	8/17/2016	In-Situ	70.6	2,510	486	3,066.6	23.2
S-2	9-0	8/17/2016	In-Situ	768	8,930	1,550	11,248	3.17
	12 - 18	8/31/2016	In-Situ	<29.4	<29.4	<29.4	<29.4	13.1
8-3	9-0	8/17/2016	In-Situ	146	2,430	514	3,090	<1.01
8-4	9-0	8/17/2016	In-Situ	<25.3	36.1	<25.3	36.1	<1.01
5-5	9-0	8/17/2016	In-Situ	<25.3	<25.3	<25.3	<25.3	<1.01
9-8	9-0	8/17/2016	In-Situ	<25.0	<25.0	<25.0	<25.0	<1.00
Background (S-BG)	6 - 12	8/17/2016	In-Situ	1	I	ı	:	<1.01

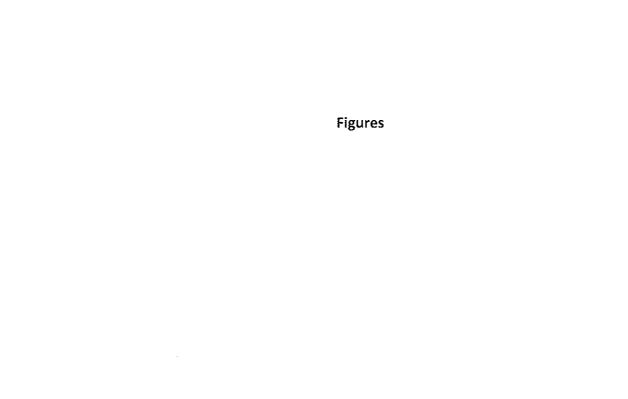
Notes: analysis performed by Permian Basin Environmental Lab, Midland, Texas, by EPA SW-846 method 8015M (TPH) and 300.0 (chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

Bold and highlighted denotes analyte detected at concentration above the OCD Recommended Remediation Action Level (RRAL)

^{*:} OCD delineation limit



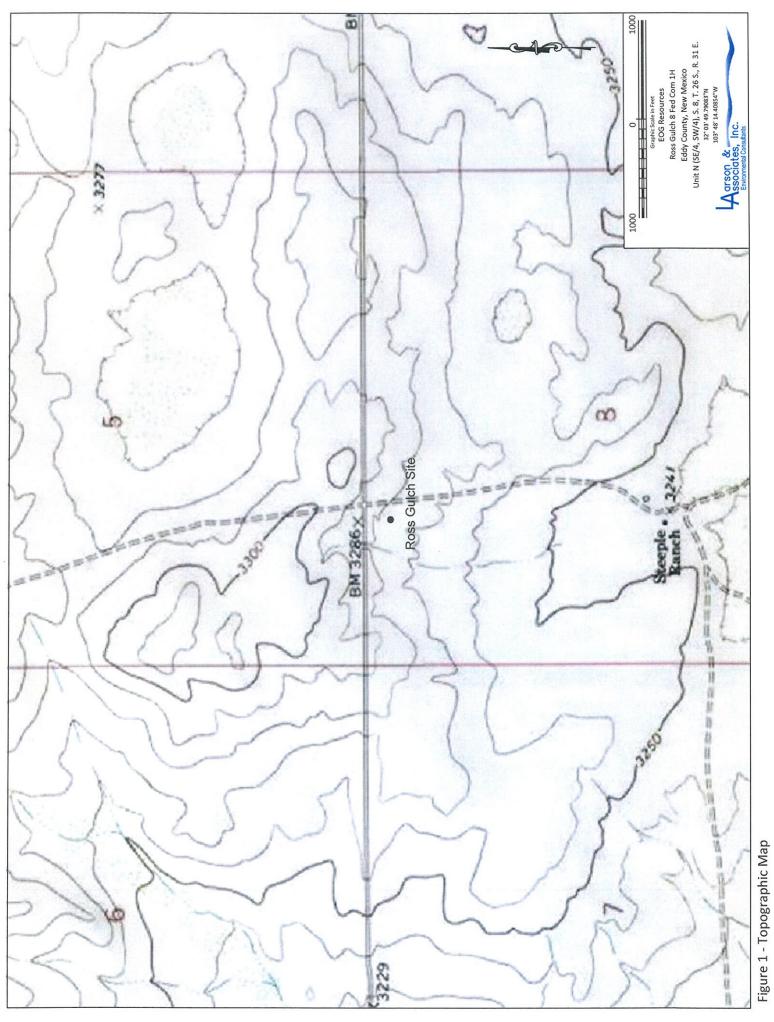




Figure 2 - Aerial Map

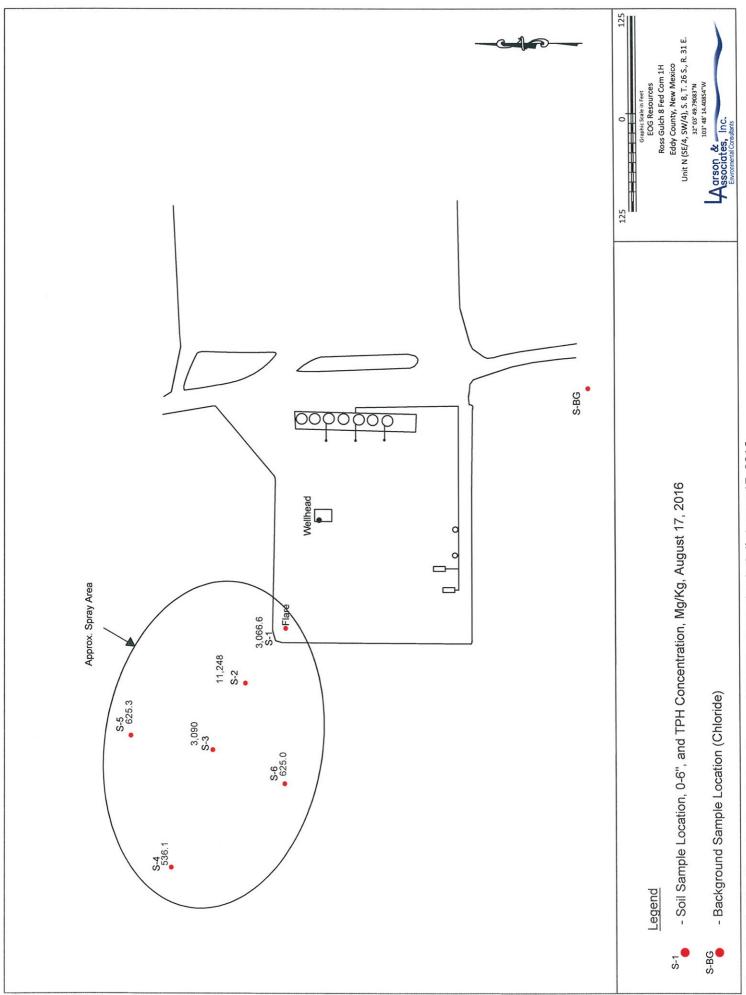


Figure 3 - Site Map Showing Sample Locations and TPH Concentration in Soil, August 17, 2016

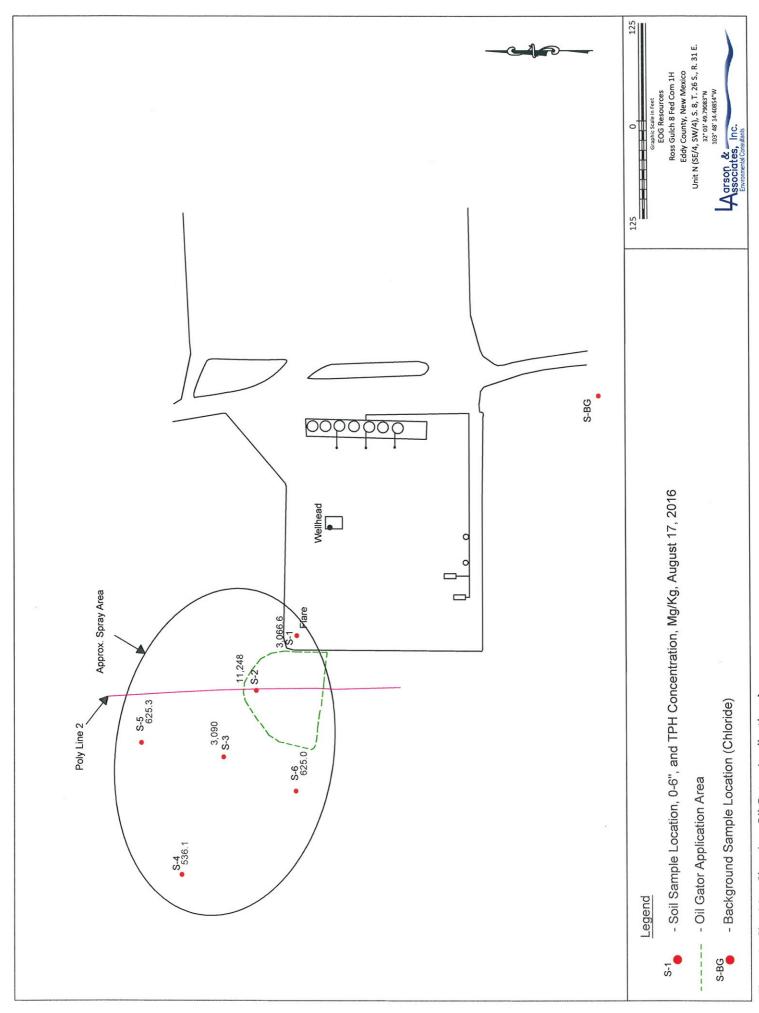


Figure 4 - Site Map Showing Oil Gator Application Area

Appendix A Laboratory Reports

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: EOG Ross Gulch Project Number: 16-0128-01 Location: EOG Ross Gulch

Lab Order Number: 6H18002



NELAP/TCEQ # T104704156-13-3

Report Date: 08/26/16

Project: EOG Ross Gulch

P.O. Box 50685

Project Number: 16-0128-01

Midland TX, 79710

Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 (0-6")	6Н18002-01	Soil	08/17/16 11:45	08-17-2016 16:42
S-2 (0-6")	6H18002-02	Soil	08/17/16 11:48	08-17-2016 16:42
S-3 (0-6")	6H18002-03	Soil	08/17/16 11:50	08-17-2016 16:42
S-4 (0-6")	6H18002-04	Soil	08/17/16 11:55	08-17-2016 16:42
S-5 (0-6")	6Н18002-05	Soil	08/17/16 12:00	08-17-2016 16:42
S-6 (0-6")	6Н18002-06	Soil	08/17/16 12:02	08-17-2016 16:42
S-BG (6"-12")	6Н18002-07	Soil	08/17/16 12:15	08-17-2016 16:42

Fax: (432) 687-0456

Project: EOG Ross Gulch

P.O. Box 50685

Project Number: 16-0128-01

Midland TX, 79710

Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 (0-6") 6H18002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dílution	Batch	Prepared	Analyzed	Method	Notes
	Perm	iian Basin E	Invironmen	ital Lab,	L.P.				
General Chemistry Parameters by EP	A / Standard Method	<u>s</u>							
Chloride	23.2	1.01	mg/kg dry	1	P6H2402	08/19/16	08/19/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6H1803	08/18/16	08/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	70.6	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C12-C28	2510	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C28-C35	486	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		81.1 %	70-1	30	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: o-Terphenyl		94.8 %	70-1	30	P6H2203	08/18/16	08/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3070	25.3	mg/kg dry	1	[CALC]	08/18/16	08/18/16	calc	

P.O. Box 50685

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

Midland TX, 79710

Project: EOG Ross Gulch Project Number: 16-0128-01

Project Number: 16-0128-01 Project Manager: Mark Larson Fax: (432) 687-0456

S-2 (0-6") 6H18002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by E		an Basin E	Invironmei	ntal Lab, l	L.P.				
Chloride % Moisture	3.17 1.0	1.01	mg/kg dry %	l L	P6H2402 P6H1803	08/19/16 08/18/16	08/19/16 08/18/16	EPA 300.0 % calculation	

C6-C12 768 126 mg/kg dry 5 P6H2203 TPH 8015M 08/18/16 08/18/16 TPH 8015M >C12-C28 8930 P6H2203 126 mg/kg dry 5 08/18/16 08/18/16 >C28-C35 1550 P6H2203 126 mg/kg dry 08/18/16 08/18/16

TPH 8015M TPH 8015M Surrogate: 1-Chlorooctane 102 % P6H2203 08/18/16 08/18/16 70-130 TPH 8015M Surrogate: o-Terphenyl 117% 70-130 P6H2203 08/18/16 08/18/16 Total Petroleum Hydrocarbon 11300 126 mg/kg dry [CALC] çalç 08/18/16 08/18/16

C6-C35

Project: EOG Ross Gulch

P.O. Box 50685

Project Number: 16-0128-01

Midland TX, 79710

Project Manager: Mark Larson

S-3 (0-6") 6H18002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
						<u>-</u>			
	Perm	iian Basin F	Invironmer	ital Lab,	L.P.				
General Chemistry Parameters by EPA	/ Standard Method	s							
Chloride	ND	1.01	mg/kg dry	1	P6H2402	08/19/16	08/19/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6H1803	08/18/16	08/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	146	126	mg/kg dry	5	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C12-C28	2430	126	mg/kg dry	5	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C28-C35	514	126	mg/kg dry	5	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		77.4 %	70-1	30	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: o-Terphenyl		92.6 %	70-1	30	P6H2203	08/18/16	08/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3090	126	mg/kg dry	5	[CALC]	08/18/16	08/18/16	calc	

Fax: (432) 687-0456

Project: EOG Ross Gulch

P.O. Box 50685

C6-C35

Midland TX, 79710

Project Number: 16-0128-01 Project Manager: Mark Larson Fax: (432) 687-0456

S-4 (0-6") 6H18002-04 (Soil)

						·			
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin I	Environmer	ıtal Lab,	L.P.				
General Chemistry Parameters by EPA / Sta	ndard Methoc	ls							
Chloride	ND	1.01	mg/kg dry	1	P6H2402	08/19/16	08/19/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6H1803	08/18/16	08/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C12-C28	36.1	25.3	mg/kg dry	Ţ	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		76.9 %	70-1	30	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: o-Terphenyl		86.9 %	70-1	30	P6H2203	08/18/16	08/18/16	TPH 8015M	
Total Petroleum Hydrocarbon	36.1	25.3	mg/kg dry	ł	[CALC]	08/18/16	08/18/16	calc	

Project: EOG Ross Gulch

P.O. Box 50685

Midland TX, 79710

Project Number: 16-0128-01 Project Manager: Mark Larson Fax: (432) 687-0456

S-5 (0-6") 6H18002-05 (Soil)

			`						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin I	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA/	Standard Method	S							
Chloride	ND	1.01	mg/kg dry	1	P6H2402	08/19/16	08/19/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6H1803	08/18/16	08/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		82.7 %	70-13	0	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: o-Terphenyl		94.5 %	70-13	0	P6H2203	08/18/16	08/18/16	TPH 8015M	
Fotal Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	08/18/16	08/18/16	calc	

Project: EOG Ross Gulch

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0128-01

Project Manager: Mark Larson

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S-6 (0-6") 6H18002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Invironmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA/	Standard Method	S							
Chloride	ND	1.00	mg/kg dry	1	P6H2402	08/19/16	08/19/16	EPA 300.0	
% Moisture	ND	0.1	%	1	P6H1803	08/18/16	08/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	ov EPA Method 80	15M							
C6-C12	ND	25.0	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		75.3 %	70-13	0	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: o-Terphenyl		84.1 %	70-13	0	P6H2203	08/18/16	08/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	08/18/16	08/18/16	cale	

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Project Number: 16-0128-01 Project Manager: Mark Larson Fax: (432) 687-0456

S-BG (6"-12") 6H18002-07 (Soil)

Analyte	Result	Reporting Límit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Invironmer	ıtal Lab,	L.P.				
General Chemistry Parameters by EPA / Star	ndard Method	s							
Chloride	ND	1.01	mg/kg dry	l	P6H2402	08/19/16	08/19/16	EPA 300.0	
% Moisture	1.0	0.1	%	ŧ	P6H1803	08/18/16	08/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by E1	PA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C12-C28	ND	25.3	mg∕kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		88.7 %	70-1	30	P6H2203	08/18/16	08/18/16	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-1	30	P6H2203	08/18/16	08/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg∕kg dry	1	[CALC]	08/18/16	08/18/16	calc	
*	ND			30 1					

Project: EOG Ross Gulch

P.O. Box 50685

Project Number: 16-0128-01

Fax: (432) 687-0456

Midland TX, 79710 Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Límit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6H1803 - *** DEFAULT PREP ***										·····
Blank (P6H1803-BLK1)				Prepared &	Analyzed:	08/18/16				
% Moisture	ND	0.1	%							
Duplicate (P6H1803-DUP1)	Sou	rce: 6H17004	-12	Prepared &	Analyzed:	08/18/16				
% Moisture	1.0	0.1	%		ND			200	20	
Batch P6H2402 - *** DEFAULT PREP ***										***************************************
Blank (P6H2402-BLK1)				Prepared &	Analyzed:	08/19/16				
Chloride	ND	1.00	mg/kg wet							
LCS (P6H2402-BS1)				Prepared &	k Analyzed:	08/19/16				
Chloride	219	1.00	mg/kg wct	200		110	80-120			
LCS Dup (P6H2402-BSD1)				Prepared &	k Analyzed:	08/19/16				
Chloride	208	1.00	mg/kg wet	200		104	80-120	5.08	20	
Duplicate (P6H2402-DUP1)	Sou	rce: 6H18002	-01	Prepared &	t Analyzed:	08/19/16				
Chloride	27.6	1.01	mg/kg dry	* ** ** ** ** ** * * ** * ** * * * * *	23.2			17.0	20	

Project: EOG Ross Gulch

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0128-01

Fax: (432) 687-0456

Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6H2203 - TX 1005										
Blank (P6H2203-BLK1)				Prepared &	Analyzed:	08/18/16				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	10							
>C28-C35	ND	25.0	þa							
Surrogate: 1-Chlorooctane	73.4		"	100		73.4	70-130			
Surrogate: o-Terphenyl	41.2		"	50.0		82.3	70-130			
LCS (P6H2203-BS1)				Prepared &	k Analyzed:	08/18/16				
C6-C12	916	25.0	mg/kg wet	1000		91.6	75-125			
>C12-C28	921	25.0	0	1000		92.1	75-125			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130		***************************************	
Surrogate: o-Terphenyl	56.3		u	50.0		113	70-130			
LCS Dup (P6H2203-BSD1)				Prepared &	k Analyzed:	08/18/16				
C6-C12	789	25.0	mg⁄kg wct	1000		78.9	75-125	14.8	20	
>C12-C28	793	25.0	н	1000		79.3	75-125	14.9	20	
Surrogate: 1-Chlorooctane	105			100		105	70-130		~~~	,,,,
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			
Matrix Spike (P6H2203-MS1)	Sou	rce: 6H18001	1-01	Prepared &	k Analyzed:	08/18/16				
C6-C12	1050	26.0	mg/kg dry	1040	27.0	98.2	75-125			
>C12-C28	3340	26.0	fi.	1040	ND	321	75-125			QM-0
Surrogate: 1-Chlorooctane	128		e	104		122	70-130		***************************************	
Surrogate: o-Terphenyl	52.9		n	52.1		102	70-130			
Matrix Spike Dup (P6H2203-MSDI)	Sou	rce: 6H1800	1-01	Prepared &	& Analyzed:	: 08/18/16				
C6-C12	1050	26.0	mg/kg dry	1040	27.0	97.8	75-125	0.355	20	
>C12-C28	3480	26.0	0	1040	ND	334	75-125	3.96	20	QM-0
Surrogate: 1-Chlorooctane	125		н	104		120	70-130			
Surrogate: o-Terphenyl	52.9		n	52.1		102	70-130			

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P.O. Box 50685 Midland TX, 79710 Project Number: 16-0128-01 Project Manager: Mark Larson

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

Duplicate

MS Matrix Spike

Dup

	Burt	PRINCER			
Report Approved By:			Date:	8/26/2016	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

0 == 0

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

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	BY:(Signature)	ignature)	ignature)	100													Lab#			S=SOIL W=WATER A=AIR		Consultar			JHO,
			R	100 Personal Control of the Control												8/17/16	Date			P=PAINT SL=SLUDGE OT=OTHER		₹ ?			E008/H9)
4	PATETIM	DATE/TIMI	DATE/TIME F					1		21.2	10:02	12:Ca	35:11	11:50	11:48	SH: ()	Time			UDGE THER					(-
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HAND DELIVERED		CUSTODY SEALS -	LABORATORY USE ONLY																			EOG (WORK (우
Ö		☐ BROKE								-						*	01.00 PM					Ross Gule	AB WORK ORDER #:		AIN-
	***************************************	N KINTAG	TUEDM #														\		WONS D	ST S			1 1	PAGE	OF-C
	***************************************	BROKEN MINTACT ONOT USED			;									:			FIELD NOTES				Jŀ	~			CHAIN-OF-CUSTO
		JSED															iii iii					P	age 1		11

RII TO EOG

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: EOG Ross Gulch
Project Number: 16-0128-01
Location: New Mexico

Lab Order Number: 6I01001



NELAP/TCEQ # T104704156-13-3

Report Date: 09/08/16

Project: EOG Ross Gulch

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0128-01 Project Manager: Mark Larson Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-2 (J-1.5)	6101001-01	Soil	08/31/16 11:15	09-01-2016 08:20

P.O. Box 50685

Midland TX, 79710

Project: EOG Ross Gulch

Project Number: 16-0128-01 Project Manager: Mark Larson Fax: (432) 687-0456

S-2 (1-1.5) 6I01001-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	ian Basin H	Invironme	ital Lab, l	L. P .				
General Chemistry Parameters by EPA / S	Standard Method	S							
Chloride	13.1	1.18	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 300.0	
% Moisture	15.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M							
C6-C12	ND	29.4	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C28-C35	ND	29.4	mg∕kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: 1-Chlorooctane		93.0 %	70-1	30	P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-1	30	P610205	09/01/16	09/01/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	(CALC)	09/01/16	09/01/16	calc	

Project: EOG Ross Gulch

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0128-01

Fax: (432) 687-0456

Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analysa	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Límits	RPD	RPD Limit	Notes
Analyte	ACSUIT	1.111111	Ullis	Dever	Result	70KEC	Littles	, , , ,		.1003
Batch P6I0602 - *** DEFAULT PREP ***				<u> </u>						
Blank (P610602-BLK1)				Prepared &	Analyzed:	09/05/16				
Chloride	ND	1.00	mg/kg wet							
LCS (P6I0602-BS1)				Prepared &	k Analyzed:	09/05/16				
Chloride	815	1.00	mg/kg wet	800		102	80-120	,		
LCS Dup (P610602-BSD1)				Prepared &	k Analyzed:	09/05/16				
Chloride	817	1.00	mg/kg wot	800		102	80-120	0.200	20	
Duplicate (P6I0602-DUP1)	Sou	rce: 6102003-	-01	Prepared: (09/05/16 Ai	nalyzed: 09	/06/16			
Chloride	1990	5.21	mg∕kg dry		2000			0.271	20	
Duplicate (P6I0602-DUP2)	Sou	rce: 6I01002-	-09	Prepared &	& Analyzed:	09/05/16				
Chloride	563	1.12	mg/kg dry		567			0.742	20	
Matrix Spike (P610602-MS1)	Sou	rce: 6I02003-	-01	Prepared &	k Analyzed:	09/05/16				
Chloride	4300	5.21	mg/kg dry	2080	2000	110	80-120			
Batch P610701 - *** DEFAULT PREP ***										
Blank (P610701-BLK1)				Prepared &	k Analyzed:	09/07/16				
% Moisture	ND	0.1	%							
Duplicate (P610701-DUP1)	Sou	rce: 6101003	-14	Prepared &	& Analyzed:	09/07/16		,		
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P610701-DUP2)	Sou	rce: 6H3100	2-01	Prepared &	& Analyzed:	09/07/16				
% Moisture	7.0	0.1	%		8.0			13.3	20	

Project: EOG Ross Gulch

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0128-01

Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6I0701 - *** DEFAULT PREP ***										
Duplicate (P6I0701-DUP3)	Sourc	e: 6102002-1	5	Prepared &	Analyzed:	09/07/16				
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P6I0701-DUP4)	Sourc	Prepared &	Analyzed:	09/07/16						
% Moisture	4.0	0.1	%		4.0			0.00	20	

Larson & Associates, Inc. Project: EOG Ross Gulch Fax: (432) 687-0456

P.O. Box 50685 Project Number: 16-0128-01 Midland TX, 79710 Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6I0205 - TX 1005		<u>, </u>							,	
Blank (P6I0205-BLK1)				Prepared &	& Analyzed:	09/01/16				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	n n							
>C28-C35	ND	25.0	R							
Surrogate: 1-Chlorooctane	114		и	100		114	70-130			
Surrogate: o-Terphenyl	66.8		"	50.0		134	70-130			S-GC
LCS (P6I0205-BS1)				Prepared &	k Analyzed:	09/01/16				
C6-C12	755	25.0	mg/kg wet	1000		75.5	75-125			
>C12-C28	784	25.0	ы	1000		78.4	75-125			
Surrogate: 1-Chlorooctane	94.5		"	100		94.5	70-130			
Surrogate: o-Terphenyl	48.2		n	50.0		96.5	70-130			
LCS Dup (P6I0205-BSD1)				Prepared &	& Analyzed:	09/01/16				
C6-C12	774	25.0	mg/kg wet	1000		77.4	75-125	2.49	20	
>C12-C28	817	25.0	11	1000		81.7	75-125	4.12	20	
Surrogate: 1-Chlorooctane	116		и	100		116	70-130		. 4 , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
Surrogate: o-Terphenyl	54.2		u	50.0		108	70-130			
Matrix Spike (P6I0205-MS1)	Sou	rce: 6101002	-01	Prepared &	& Analyzed:	09/01/16				
C6-C12	1020	28.7	mg/kg dry	1150	24.7	86.6	75-125			
>C12-C28	1370	28.7	•	1150	ND	119	75-125			
Surrogate: 1-Chlorooctane	161		tt	138		117	70-130			
Surrogate: o-Terphenyl	83.8		"	69.0		121	70-130			
Matrix Spike Dup (P6I0205-MSD1)	Sou	rce: 6101002	-01	Prepared &	& Analyzed	: 09/01/16				
C6-C12	1070	28.7	mg/kg dry	1150	24.7	91.1	75-125	5.10	20	
>C12-C28	1090	28.7	**	1150	ND	94.7	75-125	22.9	20	QM-0:
Surrogate: 1-Chlorooctane	166		н	138		120	70-130			
Surrogate: o-Terphenyl	87.9		"	69.0		127	70-130			

Larson & Associates, Inc. Project: EOG Ross Gulch Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0128-01 Project Manager: Mark Larson

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported Sample results reported on a dry weight basis дгу Relative Percent Difference RPD LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

	Bun Berren		
Report Approved By:		_ Date:	9/8/2016

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

J.C. Marie	RELINQUISHED BY:(Signature) DATE/TIME R	ñ	3:40 8/31/	DATE TIME	-				: : : : : : : : : : : : : : : : : : : :			5 St. 11 MIK/8 81.5	Field Sample I.D. Lab# Date Time Matrix	· ·		TRRP report? W=WATER SL=SLUDGE A=AIR OT=OTHER	A	Environmental Consultants Data Renorted to:	Associates, Inc.	
701	RECKIVED BY (Rignature)	RECEIVED BY: (Signature)————————————————————————————————————	(Signature)	DOTATE BY (Constant)								X	HCI HNO ₃ H ₂ SO ₄ ICE UNPRI	□ NaC	H 🗅	ATION	寸	432-687-0901 LAI PRO		507 N. Marienfeld, Ste. 200
		NORMAL C						1					\$ \\	>>			\sim	PROJECT LOCATION OR NAME:	8/3//2016	
C) HAND DELIVERED	44.	CUSTODY SEALS - Q BROKEN Q INTACT Q NOT USED	C TH															COLLECTOR: 17 7040	1128-01 1506 Ress	.

Appendix B

Photographs

Appendix B – Photographs Crude Oil Spill Remediation Report Ross Gulch 8 Fed Com Well #2H October 26, 2016



Location Sign



Crude Oil Release Area Prior to Remediation, Viewing South, July 25, 2016

Appendix B – Photographs Crude Oil Spill Remediation Report Ross Gulch 8 Fed Com Well #2H October 26, 2016



Crude Oil Release Area Post Remediation, Viewing South, October 5, 2016

Appendix C

Initial and Final C-141

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

DEC 1 4 2012

RECEIVED

Form C-141 Revised August 8, 2011

NMOCD ARTHUR EMPROPRIATE DISTRICT OFFICE IN NAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

\ /			Rele	ase No	tific	ation	and Co	rrective A	ction		
MMLA	30085	51642			 		OPERAT	FOR	X	Initia	l Report
Name of Co				737			······································	nes Fischer	400	· · · · · · · · · · · · · · · · · · ·	
Address: 40 Facility Nan				and, IX/	9705		~ ~~~~~	to. 432-686-37ee: Oil and Gas		erv	
Surface Owi				Min	eral C	wner: E					.30-015-39171-00-X1
Burrace O W	101. 202.111				:			70 A C10		W 1110	30-013-37171-00-741
Unit Letter	Section	Township	Range	Feet from	***************************************		OF REI	Feet from the	East/Wes	t Line	County
N	8	26 South	31East	330'		South		1540'	·	,	Eddy
		20 304111	·····		0636		T on often d	<u> </u>	West		Eduy
			La					ie_103.8035110			
Type of Relea	se: Crude	Oil			NAT	URE	OF RELI	EASE Release: 10 BBL	e IV	Jaluma E	Recovered: 0 BBLS
Source of Rel								lour of Occurrence			Hour of Discovery:
Was Immedia	ta Notice (Siyan?			!	·	12/05/2012 If YES, To			2/06/201	2 - 0620
was mineura	ite Notice (Yes 🛚	No 🗆	Not Re	equired	Geoffrey R				
By Whom? Ja								lour: 12/12/2012			
Was a Watero	ourse Reac	:hed?	Yes 🗵	l No			If YES, Vo	olume Impacting t	he Waterc	ourse.	
If a Watercou	rse was im	nacted Descr			1					,	
		pactor, 2000.	,								
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Describe Area					. 150				• • •		1 72
the entire affe	n area in pa cted area w	isture covering ith approx. 1.	g approx. ,500 gallo:	ns of 4% M	icrobl	ards. Sp aze/Wate	ot mopped ti er mixture. T	ne most impacted This method was a	area with ipproved b	absorber v BLM :	nt pads. Bio-remediated in place and soil samples will be taken to
insure proper	levels of T	PH are reache	d,							•	1
I hereby certif	y that the i	nformation gi	ven above	is true and	comp	lete to th	e best of my	knowledge and u	inderstand	that pur	suant to NMOCD rules and
regulations all	operators	are required t	o report as	nd/or file co	ertain r	elease no	otifications a	nd perform correct	ctive action	ns for rel	eases which may endanger
should their o	perations h	ave failed to a	adequately	investigate	e and r	emediate	contaminati	ion that pose a thr	eat to grou	ind wate	ieve the operator of liability r, surface water, human health
or the environ federal, state,	ment. In a	ddition, NMC	OCD accep	tance of a	C-141	report de	oes not reliev	e the operator of	responsibi	lity for o	compliance with any other
rederal, state,	OI IOCAI IAV	vs mid/or rege	itations.	$\overline{\lambda}$: 	T		OIL CON	SERVA	TION	DIVISION
Signature: <	$\overline{}$		<u> </u>								
					<u> </u>		Approved by	Environmental S	necialist:		J. P. J. J.
Printed Name	: James Fi	scher			<u>. </u>					Signed	By NI/4 DAMMLE
Title: Environ	nmental M	anager	·······················		!		Approval Da	te: IAN U8	2013 Ex	piration	Date:
E-mail Addre	ss: James_	Fischer@cog	resources.	com	Ē		Conditions o	f Approvál:			
							•			•	\ttached □
Date: 12/12/ Attach Addit			432-686- ary	2/4/	<u> </u>			diation per O			2RP-1486
			<i>,</i> .					s. SUBMIT RE IL NOT LATER		IUN	2NI-1786
					İ		Februa	<i>a</i> .	10AN 2つに		
					1		(exoru	M.A.	~~~		

Bratcher, Mike, EMNRD

From:

Leking, Geoffrey R, EMNRD

Sent:

Friday, December 14, 2012 10:39 AM

To:

Bratcher, Mike, EMNRD

Cc: Subject: James_Fischer@eogresources.com FW: Ross Gulch 8 FC #1H oil spill

Attachments:

Ross Guich 8 FC #1H C-141.PDF

Mike

James sent this to me. Thanks.

Geoffrey Leking Environmental Specialist NMOCD-Hobbs 1625 N. French Drive Hobbs, NM 88240

Office: (575) 393-6161 Ext. 113

Cell: (575) 399-2990

email: geoffreyr.leking@state.nm.us

From: James Fischer@eogresources.com [mailto:James Fischer@eogresources.com]

Sent: Wednesday, December 12, 2012 12:10 PM

To: Leking, Geoffrey R, EMNRD

Subject: Ross Gulch 8 FC #1H oil spill

Mr. Leking,

Here is the C-141 for a spill we had in Eddy county that I left you a message about this morning. The original is in the mail (certified). I apologize for the delay in reporting, the person that reported it to the BLM didn't know we needed to report to OCD as well.

Thanks, James

James füscher
Environmental Manager
EOG Resources, Inc. | Midland Division
Office: 432-686-3747 | Cell: 432-270-1170

Bratcher, Mike, EMNRD

From:

Bratcher, Mike, EMNRD

Sent:

Friday, December 14, 2012 12:47 PM

To:

Leking, Geoffrey R, EMNRD

Cc:

James_Fischer@eogresources.com

Subject:

RE: Ross Gulch 8 FC #1H oil spill

Got it - Thanks

James,

Please copy me on anything sent to BLM.

Thank you,

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108 C: 575-626-0857

F: 575-748-9720

From: Leking, Geoffrey R, EMNRD

Sent: Friday, December 14, 2012 10:39 AM

To: Bratcher, Mike, EMNRD

Cc: <u>James Fischer@eogresources.com</u> **Subject:** FW: Ross Gulch 8 FC #1H oil spill

Mike

James sent this to me. Thanks.

Geoffrey Leking Environmental Specialist NMOCD-Hobbs 1625 N. French Drive Hobbs, NM 88240

Office: (575) 393-6161 Ext. 113

Cell: (575) 399-2990

email: geoffreyr.leking@state.nm.us

From: James Fischer@eogresources.com [mailto:James Fischer@eogresources.com]

Sent: Wednesday, December 12, 2012 12:10 PM

To: Leking, Geoffrey R, EMNRD

Subject: Ross Gulch 8 FC #1H oil spill

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mail (certified). I apologize for the delay in reporting, the person that reported it to the BLM didn't know we needed to report to OCD as well.

Thanks, James

James Fischer
Environmental Manager
EOG Resources, Inc. | Midland Division
Office: 432-686-3747 | Cell: 432-270-1170

District 1
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

2RP-2186 State of New Mexico Energy Minerals and Natural Resources

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

Form C-141

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ase Notific	ation	and Co	rrective A	ction				
						OPERATOR			☐ Initial Report ☐ Final Report			
Name of Company: EOG Resources, Inc.						Contact: Zane Kurtz						
Address: 5509 Champions Dr., Midland, TX 79705						Telephone No." 432-425-2023						
Facility Nar	ne: Ross (Gulch 8 Fed	Com #21	1	F	acility Typ	e: Tank Batter	<u>y</u>				
Surface Owner: BLM Mineral Own						r: BLM			API No.: 30-015-39171-00-X1			
		13		LOC	ATION	OF RE	EASE					
Unit Letter Section Township Range Feet from the						North/South Line Feet from the Eas			ast/West Line County			
		268	31E	330		South	1540	West		Eddy		
	1		<u>L</u>	Latitude <u>32.06</u>	536885°	Longitud	e <u>-103.803511(</u>	0°	,			
				NA'	TURE	OF REL	EASE	т	Volume	Secovered,	0 bbl	
Type of Release: Crude Oil						Volume of Release: 10 bbl			Volume Recovered: 0 bbl			
Source of Release: Malfunction of dump valve at separator						Date and Hour of Occurrence: 12-05-2012, 3:00PM			Date and Hour of Discovery: 12-06-2012, 10:30AM			
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required						If YES, To Whom? Geoffrey Leking (OCD District 1)						
By Whom?						Date and Hour:						
Was a Watercourse Reached? Yes No						If YES, Volume Impacting the Watercourse.						
If a Waterco	ourse was Ir	npacted, Desc	ribe Fully	.*							-	
II A WAICIO	Juise Has III	iipuotea, – eri	,									
											1 41- 6	
Describe Ca	ause of Prot	lem and Rem	edial Acti	on Taken. *Initia	1 C-141st	ates - lost pr	essure to separate	or dump a	ind liquid	went throug	in the ti	are, spraying
the pasture	west of loca	ation. Dump v	valve will	be adjusted.								
	4.60-040-6	Land Cleanur	Action T	aken. * Initial C-	141 states	- oil spraye	d an area in pastu	re appro	x. 100 yar	ds x 150 ya	rds. Sp	ot mopped the
Describe Al	ted area wit	h absorbent p	ads. Bio-	aken. * Initial C- remediated in pla	ce the en	tire affected	area with approx.	1,500 ga	illons of 4	% Microbla	ze/Wat	er mixture.
This method	d was appro	ved by BLM	and soil s	amples will be tal	Ken to en	surc proper		ediation	THP eve	eded RRA	1.71.00	0 mg/Kg) in
collected so	il samples a	at 6 locations	(2-1-2-6)) Itom o to o mer	iies and i	2 10 10 11010	A. Clarkso Llia	hact oblo	ride was 2	2.2 ma/Ka	in sami	nle S-1. 0 to
samples (S-	1 - S-3) wit	th TPH betwe	en 3,000.0	6 and 11,248 mg/ treated area with	Oil Gato	r®, tilled an	i watered. Area	will be se	ed to BLN	√ seed blen	d No. 2	. No further
inches. On	October 4.	this spill even	incipiises t	House area with	211 2410							
action is rec	juested for t	ma apin even	••							umariant to X	MOCI	O rules and
T haraby cer	tify that the	information	given abo	ve is true and cor	npiete to	the best of n	y knowledge and	a underst	and that p	ursuarit to r releases wh	ich mat	v endanger
1 Heren's cor	all operator	s are required	to report	and/or file certain	n release	notifications	and perform cor marked as "Fina"	icclive at 1 Report*	does not	relieve the	operato	r of liability

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

* Attach Additional Sheets If Necessary