

**1RP-3421**  
**CONFIRMATION SAMPLE REPORT**  
**Falcon 25 Fed Well #1H**  
**Produced Water Release**  
Lea County, New Mexico

LAI Project No. 16-0128-07


September 14, 2016

Prepared for:

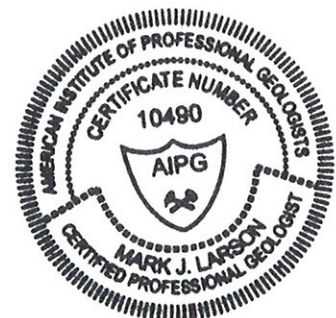
EOG Resources, Inc.  
5509 Champions Drive  
Midland, Texas 797067

Prepared by:

Larson & Associates, Inc.  
507 North Marienfeld Street, Suite 205  
Midland, Texas 79701

  
\_\_\_\_\_  
Mark J. Larson, P.G.

Certified Professional Geologist #10490



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## **Introduction**

This report presents laboratory results of soil samples to confirm remediation of a produced water release from a poly line at the Falcon 25 Fed Well #1H (Site). The Site is located in Unit C (NW/4, NE/4), Section 25, Township 24 South and Range 33 East in Lea County, New Mexico. The geodetic position is North 32.1949° and West -103.5274°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

## **Background**

On May 8, 2014, EOG Resources, Inc. (EOG) reported a release involving approximately 720 barrels (bbl) of produced water due to failure of a poly line. The release occurred inside the lined containment however some fluid flowed outside the containment and off the location. Approximately 620 bbls was recovered. The initial C-141 was submitted to the New Mexico Oil Conservation Division (OCD) District 1 on May 12, 2014 and assigned remediation permit number 1RP-3421. The C-141 states that EOG proposed to collect soil samples for chloride and total petroleum hydrocarbon analysis. The impacted area would be excavated, stockpiled on poly-plastic and transported to an approved disposal facility. Clean material will be backfilled within the excavated area to normal grade. The approved C-141 required remediation to be completed by January 12, 2015. No final report was submitted to OCD to confirm remediation was performed.

## **Setting**

The setting is as follows:

- Elevation is approximately 3,570 feet above mean sea level (AMSL);
- Topography slopes toward the east and southeast;
- A topographically low area is located about 2,500 feet east of the Site;
- Groundwater is estimated at approximately 75 feet below ground surface (bgs);
- The nearest fresh water well is approximately 2,500 feet east of the Site in Unit A (NE/4, NE/4), Section 25, Township 24 South and Range 33 East;
- Depth to groundwater is reported at 17.56 feet bgs.

## **Remediation Action Levels**

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	>50 Feet	10
Wellhead Protection Area	No	0
Distance to Surface Water	> 1,000 Horizontal Feet	0

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

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

### **Soil Samples and Laboratory Analysis**

During an initial Site visit LAI personnel observed an area where a produced water spill had occurred near the southwest corner of the containment. The spill flowed off the location towards the southeast. LAA personnel observed a soil stockpile near the northwest corner of the location.

On August 30, 2016, LAI personnel used a direct push (Terraprobe®) rig to collect soil samples at eight (8) locations (DP-1 through DP-8) and background (DP-BG) west of the Site. Two (2) composite samples (Comp-1 and Comp-2) consisting of five (5) discrete samples were collected from a soil pile located near the northwest corner of the location. Trace Analysis, Inc., located in Midland and Lubbock, Texas, analyzed the samples for total petroleum hydrocarbons (TPH) including gasoline (GRO), diesel (DRO) and oil (ORO) range organics by EPA SW-846 Method 8015 and chloride by method 300. Table 1 presents the analytical data summary. Figure 3 presents a Site drawing and sample locations. Appendix A presents the laboratory report. Appendix B presents photographs.

Referring to Table 1, the maximum TPH concentration was 35.3 milligrams per kilogram (mg/Kg) in sample DP-3, 0 to 2 feet and less than the method reporting limit (RL) in the remaining samples. Chloride was less than 250 mg/Kg except in samples DP-8, 0 to 2 feet (567 mg/Kg) and background (940 mg/Kg). TPH and chloride were below the RL in the soil pile composite samples.

### **Conclusions**

The laboratory results confirm TPH is below the recommended remediation action levels (RRAL) and chloride is less the OCD recommended delineation level of 250 mg/Kg except DP-8, 0 to 2 feet (567 mg/Kg). EOG requests no further action for this spill incident. Appendix C presents the initial and final C-141.

## Tables

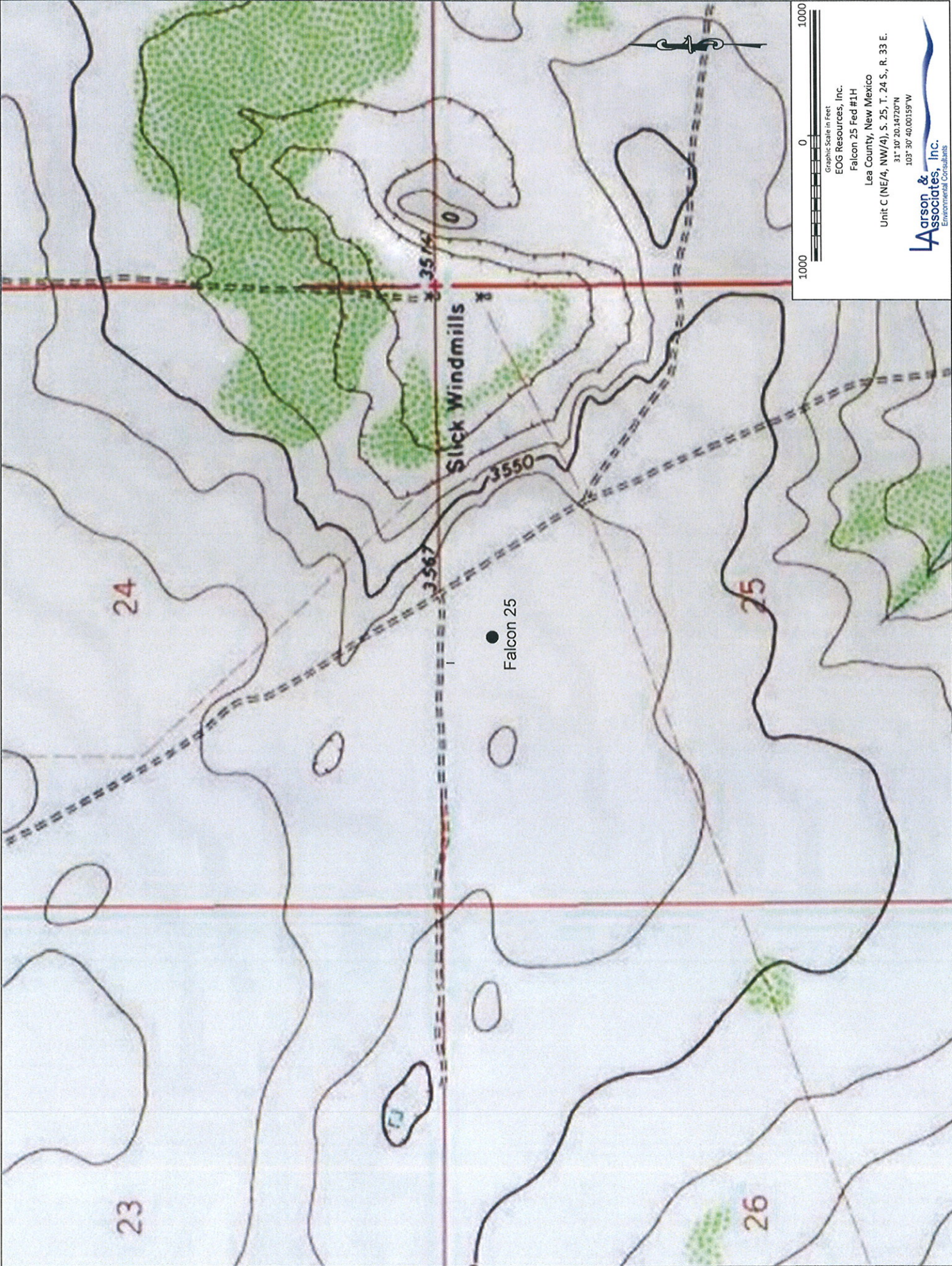
Table 1  
Investigation Soil Sample Analytical Data Summary  
EOG Resources, Inc., Falcon 25 Fed #1H  
Unit C (NE/4, NW/4), Section 25, Township 24 South, Range 33 East  
Lea County, New Mexico  
1RP-3421

Sample	Depth (Feet)	Collection Date	Status	GRO C6-C12	DRO >C12 - C28	ORO >C28 - C36	TPH	Chloride
<b>OCD RRAL:</b>								
DP-1	0 - 2	8/30/2016	In-Situ	<28.7	<28.7	<28.7	<28.7	*250 14.1
DP-2	0 - 2	8/30/2016	In-Situ	<28.1	<28.1	<28.1	<28.1	6.64
DP-3	0 - 2	8/30/2016	In-Situ	<26.6	<26.6	35.2	35.3	53.5
DP-4	0 - 2 2 - 4	8/30/2016 8/30/2016	In-Situ In-Situ	<29.4 --	<29.4 --	<29.4 --	<29.4 --	17.4 48.0
DP-5	0 - 2	8/30/2016	In-Situ	<26.9	<26.9	<26.9	<26.9	3.90
DP-6	0 - 2	8/30/2016	In-Situ	<27.5	<27.5	<27.5	<27.5	21.1
DP-7	0 - 2	8/30/2016	In-Situ	<27.5	<27.5	<27.5	<27.5	<1.10
DP-8	0 - 2	8/30/2016	In-Situ	<28.1	<28.1	<28.1	<28.1	567
DP-BG	0 - 2	8/23/2016	In-Situ	--	--	--	--	940
<b>Soil Pile Samples</b>								
Comp-1	--	8/30/2016	Excavated	<27.8	<27.8	<27.8	<27.8	<1.11
Comp-2	--	8/30/2016	Excavated	<28.4	<28.4	<28.4	<28.4	<1.14

Notes: analysis performed by Permian Basin Environmental Lab, Midland, Texas, by EPA SW-846 method 8015M (TPH) and 300.0 (chloride)  
Depth feet below ground surface (bgs)  
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)  
\*: OCD delineation limit

## Figures





Graphic Scale in Feet  
EOG Resources, Inc.  
Falcon 25 Fed #1H  
Lea County, New Mexico  
Unit C (NE/4, NW/4), S. 25, T. 24 S., R. 33 E.  
31° 10' 20.14720"N  
103° 30' 40.00159"W

**Larson & Associates, Inc.**  
Environmental Consultants

Figure 1 - Topographic Map





150 0 150

Graphic Scale in Feet  
EOG Resources, Inc.  
Falcon 25 Fed #1H  
Lea County, New Mexico  
Unit C (NE/4, S. 25, T. 24 S., R. 33 E.  
31° 10' 20.14720"N  
103° 30' 40.00159"W

**Larson & Associates, Inc.**  
Environmental Consultants

Figure 2 - Aerial Map



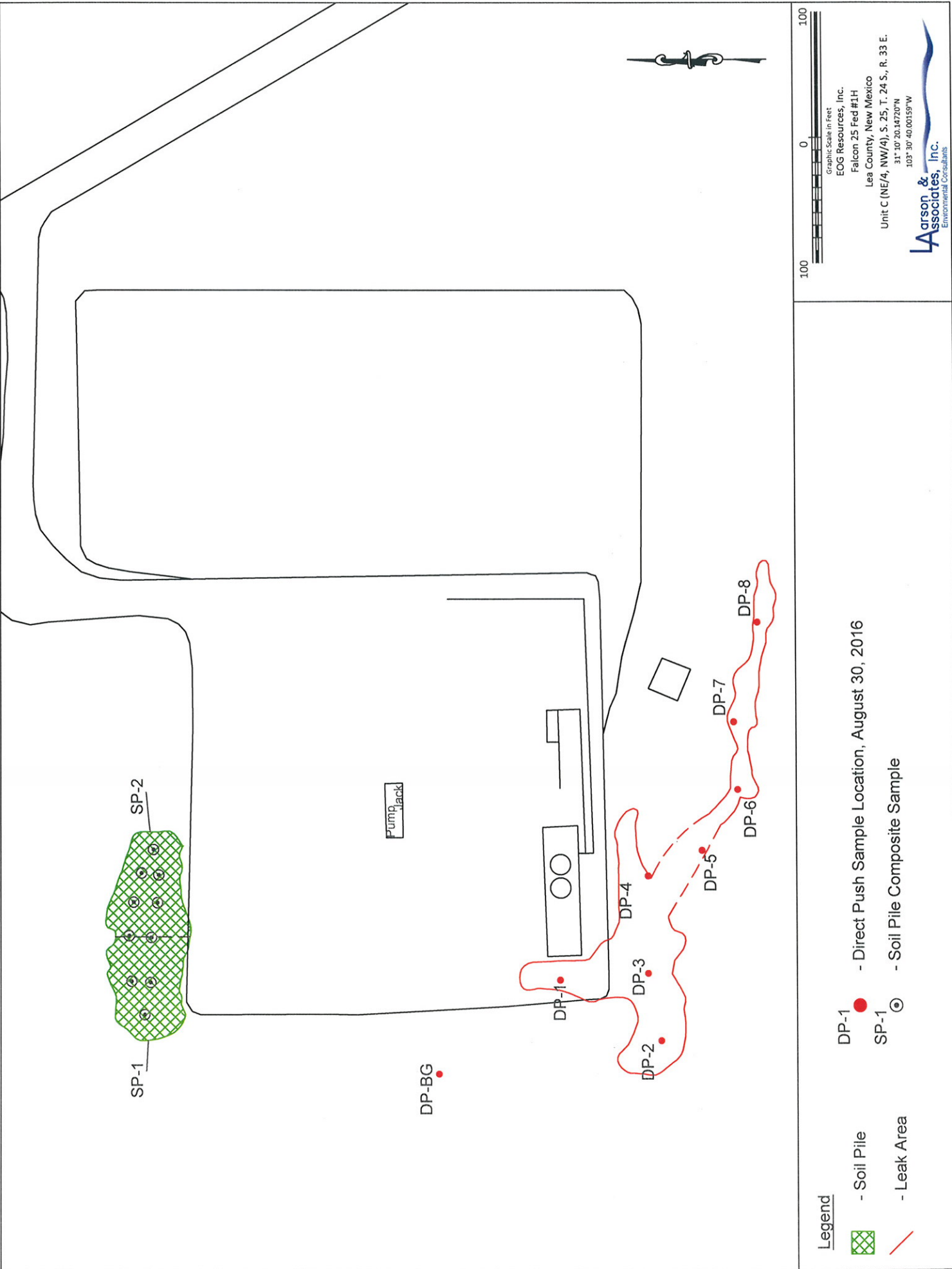


Figure 3 - Site Map showing Direct Push and Composite Sample Locations

## **Appendix A**

### **Laboratory Report**

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



## Analytical Report

**Prepared for:**

Mark Larson  
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P.O. Box 50685  
Midland, TX 79710

Project: EOG Falcon 25  
Project Number: 16-0128-07  
Location: New Mexico  
Lab Order Number: 6101002



NELAP/TCEQ # T104704156-13-3

Report Date: 09/08/16

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

Project: EOG Falcon 25  
Project Number: 16-0128-07  
Project Manager: Mark Larson

Fax: (432) 687-0456

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-1 (0-2)	6101002-01	Soil	08/30/16 11:25	08-31-2016 15:50
DP-3 (0-2)	6101002-02	Soil	08/30/16 11:40	08-31-2016 15:50
DP-2 (0-2)	6101002-03	Soil	08/30/16 11:55	08-31-2016 15:50
DP-4 (0-2)	6101002-04	Soil	08/30/16 12:10	08-31-2016 15:50
DP-4 (2-4)	6101002-05	Soil	08/30/16 12:10	08-31-2016 15:50
DP-5 (0-2)	6101002-06	Soil	08/30/16 12:25	08-31-2016 15:50
DP-6 (0-2)	6101002-07	Soil	08/30/16 12:30	08-31-2016 15:50
DP-7 (0-2)	6101002-08	Soil	08/30/16 12:35	08-31-2016 15:50
DP-8 (0-2)	6101002-09	Soil	08/30/16 12:40	08-31-2016 15:50
DP-BG (0-2)	6101002-10	Soil	08/30/16 13:30	08-31-2016 15:50
Comp-1	6101002-11	Soil	08/30/16 10:45	08-31-2016 15:50
Comp-2	6101002-12	Soil	08/30/16 10:55	08-31-2016 15:50

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**DP-1 (0-2)**  
**6I01002-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	14.1	1.15	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 309.0	
% Moisture	13.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.7	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: 1-Chlorooctane		95.5 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	09/01/16	09/01/16	calc	

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**DP-3 (0-2)**  
**6101002-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	53.5	1.06	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 300.0	
% Moisture	6.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C28-C35	35.2	26.6	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: 1-Chlorooctane		78.1 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: o-Terphenyl		96.6 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	35.2	26.6	mg/kg dry	1	[CALC]	09/01/16	09/01/16	calc	

Permian Basin Environmental Lab, L.P.

*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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**DP-2 (0-2)**  
**6I01002-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.64	1.12	mg/kg dry	1	P6I0602	09/05/16	09/05/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.1	mg/kg dry	1	P6I0205	09/01/16	09/01/16	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P6I0205	09/01/16	09/01/16	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P6I0205	09/01/16	09/01/16	TPH 8015M	
Surrogate: <i>1-Chlorooctane</i>		82.2 %	70-130		P6I0205	09/01/16	09/01/16	TPH 8015M	
Surrogate: <i>o-Terphenyl</i>		112 %	70-130		P6I0205	09/01/16	09/01/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	09/01/16	09/01/16	calc	

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**DP-4 (0-2)**  
**6101002-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	17.4	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 8015M**

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		91.7 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		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	

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**DP-4 (2-4)**  
**6101002-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	48.0	1.11	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation	

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**DP-5 (0-2)**  
**6101002-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.90	1.08	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 300.0	
% Moisture	7.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.9	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: 1-Chlorooctane		65.7 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		87.4 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/01/16	09/01/16	calc	

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**DP-6 (0-2)**  
**6I01002-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	21.1	1.10	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.5	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: 1-Chlorooctane		78.3 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/01/16	09/01/16	calc	

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**DP-7 (0-2)**  
**6101002-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.10	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 300.0
% Moisture	9.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.5	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M
>C12-C28	ND	27.5	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M
>C28-C35	ND	27.5	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M
Surrogate: 1-Chlorooctane		72.7 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M
Surrogate: o-Terphenyl		95.4 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/01/16	09/01/16	calc

Permian Basin Environmental Lab, L.P.

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Project Number: 16-0128-07  
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**DP-8 (0-2)**  
**6101002-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	567	1.12	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.1	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: 1-Chlorooctane		77.1 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	09/01/16	09/01/16	calc	

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**DP-BG (0-2)**  
**6I01002-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	940	11.5	mg/kg dry	10	P610602	09/05/16	09/05/16	EPA 300.0	
% Moisture	13.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation	



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

Project: EOG Falcon 25  
Project Number: 16-0128-07  
Project Manager: Mark Larson

Fax: (432) 687-0456

**Comp-1**  
**6101002-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.11	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 300.0
% Moisture	10.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.8	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M
>C12-C28	ND	27.8	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M
>C28-C35	ND	27.8	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M
Surrogate: 1-Chlorooctane		92.0 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M
Surrogate: o-Terphenyl		116 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	09/01/16	09/01/16	calc

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

Project: EOG Falcon 25  
Project Number: 16-0128-07  
Project Manager: Mark Larson

Fax: (432) 687-0456

**Compl-2**  
**6101002-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.14	mg/kg dry	1	P610602	09/05/16	09/05/16	EPA 300.0	
% Moisture	12.0	0.1	%	1	P610701	09/07/16	09/07/16	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.4	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P610205	09/01/16	09/01/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	09/01/16	09/01/16	calc	

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

Project: EOG Falcon 25  
Project Number: 16-0128-07  
Project Manager: Mark Larson

Fax: (432) 687-0456

**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 P610602 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P610602-BLK1)</b>				Prepared & Analyzed: 09/05/16					
Chloride	ND	1.00	mg/kg wet						
<b>LCS (P610602-BS1)</b>				Prepared & Analyzed: 09/05/16					
Chloride	815	1.00	mg/kg wet	800		102	80-120		
<b>LCS Dup (P610602-BSD1)</b>				Prepared & Analyzed: 09/05/16					
Chloride	817	1.00	mg/kg wet	800		102	80-120	0.200	20
<b>Duplicate (P610602-DUP1)</b>				Source: 6102003-01 Prepared: 09/05/16 Analyzed: 09/06/16					
Chloride	1990	5.21	mg/kg dry		2000			0.271	20
<b>Duplicate (P610602-DUP2)</b>				Source: 6101002-09 Prepared & Analyzed: 09/05/16					
Chloride	563	1.12	mg/kg dry		567			0.742	20
<b>Matrix Spike (P610602-MS1)</b>				Source: 6102003-01 Prepared & Analyzed: 09/05/16					
Chloride	4300	5.21	mg/kg dry	2080	2000	110	80-120		

**Batch P610701 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P610701-BLK1)</b>				Prepared & Analyzed: 09/07/16					
% Moisture	ND	0.1	%						
<b>Duplicate (P610701-DUP1)</b>				Source: 6101003-14 Prepared & Analyzed: 09/07/16					
% Moisture	10.0	0.1	%		10.0			0.00	20
<b>Duplicate (P610701-DUP2)</b>				Source: 6H31002-01 Prepared & Analyzed: 09/07/16					
% Moisture	7.0	0.1	%		8.0			13.3	20

Permian Basin Environmental Lab, L.P.

*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.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 15 of 19

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

Project: EOG Falcon 25  
Project Number: 16-0128-07  
Project Manager: Mark Larson

Fax: (432) 687-0456

**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 \*\*\***

<b>Duplicate (P6I0701-DUP3)</b>			<b>Source: 6I02002-15</b>			<b>Prepared &amp; Analyzed: 09/07/16</b>		
% Moisture	9.0	0.1	%		10.0		10.5	20

Duplicate (P6I0701-DUP4)			Source: 6I06001-09			Prepared & Analyzed: 09/07/16		
% Moisture	4.0	0.1	%		4.0		0.00	20

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: EOG Falcon 25  
Project Number: 16-0128-07  
Project Manager: Mark Larson

Fax: (432) 687-0456

**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 P610205 - TX 1005**

**Blank (P610205-BLK1)**

Prepared & Analyzed: 09/01/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	66.8		"	50.0		134	70-130			S-GC

**LCS (P610205-BS1)**

Prepared & Analyzed: 09/01/16

C6-C12	755	25.0	mg/kg wet	1000		75.5	75-125			
>C12-C28	784	25.0	"	1000		78.4	75-125			
Surrogate: 1-Chlorooctane	94.5		"	100		94.5	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.5	70-130			

**LCS Dup (P610205-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	"	1000		81.7	75-125	4.12	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	54.2		"	50.0		108	70-130			

**Matrix Spike (P610205-MS1)**

Source: 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		"	138		117	70-130			
Surrogate: o-Terphenyl	83.8		"	69.0		121	70-130			

**Matrix Spike Dup (P610205-MSD1)**

Source: 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-05
Surrogate: 1-Chlorooctane	166		"	138		120	70-130			
Surrogate: o-Terphenyl	87.9		"	69.0		127	70-130			

Permian Basin Environmental Lab, L.P.

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: EOG Falcon 25  
Project Number: 16-0128-07  
Project Manager: Mark Larson

Fax: (432) 687-0456

### 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

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

MS Matrix Spike

Dup Duplicate

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.

Data Reported to:

CI 01002

DATE: 8/31/16

PO #:

LAB WORK ORDER #:

CI 01002

PROJECT LOCATION OR NAME:

ECG Falcon 25

LAI PROJECT #:

16-0128-07

COLLECTOR: Travis

## CHAIN-OF-CUSTODY

TRRP report? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO TIME ZONE: <input checked="" type="checkbox"/> W=WATER <input type="checkbox"/> P=PAINT A=AIR <input type="checkbox"/> SL=SLUDGE OT=OTHER		PRESERVATION HCl <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> UNPRESERVED <input type="checkbox"/>		ANALYSES BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> TPH 418.1 <input type="checkbox"/> TPH 1005 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> GASOLINE MOD 8015 <input type="checkbox"/> DIESEL - MOD 8015 <input type="checkbox"/> VOC 8260 <input type="checkbox"/> SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLDPAH <input type="checkbox"/> 8081 PESTICIDES <input type="checkbox"/> 8151 HERBICIDES <input type="checkbox"/> TCLP - METALS (RCRA) <input type="checkbox"/> TCLP VOC <input type="checkbox"/> TCLP - PEST <input type="checkbox"/> HERB <input type="checkbox"/> Semi-VOC <input type="checkbox"/> TOTAL METALS (RCRA) <input type="checkbox"/> OTHER LIST <input type="checkbox"/> LEAD - TOTAL <input type="checkbox"/> D.W. 200.8 <input type="checkbox"/> TCLP <input type="checkbox"/> TOX <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> pH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/> EXPLOSIVES <input type="checkbox"/> PECTHOLATE <input type="checkbox"/> CHLORIDE <input type="checkbox"/> ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/>	
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers
DR-1 (G-2)	-01	8/30/16	11:25	S	2
DR-3 (G-2)	-02		11:40		
DR-4 (G-2)	-03		11:55		
DR-4 (G-2)	-04		12:10		
DR-4 (G-2)	-05		12:10		
DR-5 (G-2)	-06		12:35		
DR-6 (G-2)	-07		12:36		
DR-7 (G-2)	-08		12:35		
DR-8 (G-2)	-09		12:40		
DR-10 (G-2)	-10		1:20		
Comp 1	-11		10:45		
Comp 2	-12		10:55		
TOTAL					
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
TURN AROUND TIME		LABORATORY USE ONLY:			
NORMAL <input checked="" type="checkbox"/>		RECEIVING TEMP: 4.2 THERM #: 41			
1 DAY <input type="checkbox"/>		CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED			
2 DAY <input type="checkbox"/>		CARRIER BILL #			
OTHER <input type="checkbox"/>		HAND DELIVERED <input type="checkbox"/>			

211 TR ENCL

## **Appendix B**

### **Photographs**





Well Sign



Spill Area and Location of Soil Samples Viewing East

## **Appendix C**

### **Initial and Final C-141**

HOBBS OGD

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  
Minerals and Natural Resources

Oil Conservation Division  
RECEIVED 220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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, Inc.	Contact -- Ryan Kainer
Address -- 5509 Champions Drive, Midland, TX 79706	Telephone No. (432) 686-3662
Facility Name -- Falcon 25 FED 1H	Facility Type -- Oil Well

Surface Owner -- BLM	Mineral Owner -- New Mexico	API No. 30-025-39560
----------------------	-----------------------------	----------------------

#### LOCATION OF RELEASE

Unit Letter C	Section 25	Township 124S	Range R33E	Feet from the 330	North/South Line S	Feet from the 2210	East/West Line West	County Lea
------------------	---------------	------------------	---------------	----------------------	-----------------------	-----------------------	------------------------	---------------

Latitude 32.1949 Longitude -103.5274

#### NATURE OF RELEASE

Type of Release -- Produced Water	Volume of Release - 720 bbls	Volume Recovered -- 670 bbls
Source of Release -- Flare leaked oil on location	Date and Hour of Occurrence: 5/8/2014, 6:00 PM	Date and Hour of Discovery 5/8/2014
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffery Leking (NMOCID)	
By Whom? Ryan Kainer	Date and Hour 5/10/2014	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was impacted, Describe Fully.\*

NA

Describe Cause of Problem and Remedial Action Taken.\*

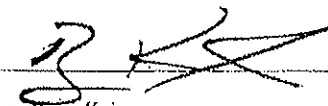
A poly line leak released approximately 720 bbls of produced water into containment and flowed off location. Approximately 670 bbls were recovered.

Poly line was repaired. A sampling plan and remediation of the spill will be underway pending approval.

Describe Area Affected and Cleanup Action Taken.\*

The spill area will be sampled and analyzed for Chlorides and Total Petroleum Hydrocarbons. The impacted area will be excavated, stockpiled on poly-plastic, and transported to an approve disposal facility. Clean material will be backfilled within the excavated area to normal grade.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCID 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 NMOCID 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, NMOCID 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Ryan Kainer	Approved by Environmental Specialist:	
Title: Sr. Safety & Environmental Rep.	Approval Date: 11/2/14	Expiration Date: 1-12-15
E-mail Address: ryan_kainer@eogresources.com	Conditions of Approval: 3 hrs govt report Rebate & remediate once report NMOCID goals - Submit final C-141 by 1-12-15	Attached <input type="checkbox"/> IRP-7421 o/sid 7377 270 173164 76 49
Date: 5/12/2014 Phone: 432-686-3662		

\* Attach Additional Sheets If Necessary

NOV 14 2014



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

2RP-2186  
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 August 8, 2011

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, Inc.	Contact: Zane Kurtz
Address: 5509 Champions Dr., Midland, TX 79705	Telephone No.: 432-425-2023
Facility Name: Falcon 25 Fed #1H	Facility Type: Tank Battery
Surface Owner: Federal	Mineral Owner: Federal
API No.: 30-025-39560	

#### LOCATION OF RELEASE

Unit Letter C	Section 25	Township 24S	Range 33E	Feet from the 330	North/South Line South	Feet from the 2210	East/West Line West	County Lea
------------------	---------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	---------------

Latitude 32.1949° Longitude -103.5274°

#### NATURE OF RELEASE

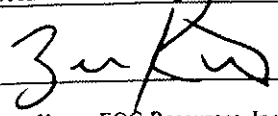

Type of Release: Produced Water	Volume of Release: 720 bbl	Volume Recovered: 670 bbl
Source of Release: Poly Line	Date and Hour of Occurrence: 5-8-2014, 6:00PM	Date and Hour of Discovery: 5-8-2014
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking (NMOCD)	
By Whom? Ryan Kainer	Date and Hour: 5/10/2014	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

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

Describe Cause of Problem and Remedial Action Taken. \*Initial C-141 stated that poly line inside containment leaked and released approximately 720 bbls of produced water into containment and flowed off location. Approximately 670 bbls were recovered. Poly line was repaired. A sampling plan and remediation of the spill will be underway pending approval. The spill area will be sampled and analyzed for chloride and total petroleum hydrocarbons. The impacted area will be excavated, stockpiled on poly-plastic, and transported to an approved disposal facility. Clean material will be backfilled within the excavated area to normal grade

Describe Area Affected and Cleanup Action Taken. \* On August 30, 2016, LAI personnel collected soil samples at 8 locations in spill area, soil pile and background. TPH was below RRAL (100 mg/Kg) and chloride less than 250 mg/Kg except sample DP-8 (567 mg/Kg). TPH and chloride in soil pile below the method reporting limits. EOG requests no further action for this spill incident.

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: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Zane Kurtz, EOG Resources, Inc.		Approved by Environmental Sp 	Per Oberding Email Attached
Title: Sr. Environmental Representative		Approval Date: 11/24/2014	Expiration Date: N/A
E-mail Address: zane.kurtz@eogresources.com		Conditions of Approval: Sample borings to be backfilled	Attached <input type="checkbox"/> 1RP 3421
Date: 09-14-2016	Phone: 432-556-8074		

\* Attach Additional Sheets If Necessary

1RP-3421

**From:** [Bockisch, Bernie](#)  
**To:** [Lynch, Kristen, EMNRD](#)  
**Subject:** FW: Falcon 25 Fed 1H Assessment Report  
**Date:** Friday, September 30, 2016 8:11:22 AM

---

Kristen,

Here's the closure approval from Tomas for the 1H (RP3421).

**Bernard Bockisch, PMP**  
**Senior Project Manager**

**GHD**

T: +1 505 884 0672 | M: +1 505 280 0572 | E: [Bernard.Bockisch@ghd.com](mailto:Bernard.Bockisch@ghd.com)  
6121 Indian School Rd. NE Albuquerque New Mexico 87110 | [www.ghd.com](http://www.ghd.com)  
[WATER](#) | [ENERGY & RESOURCES](#) | [ENVIRONMENT](#) | [PROPERTY & BUILDINGS](#) | [TRANSPORTATION](#)

Please consider our environment before printing this email

---

**From:** Oberding, Tomas, EMNRD [<mailto:Tomas.Oberding@state.nm.us>]  
**Sent:** Tuesday, November 25, 2014 2:32 PM  
**To:** Bockisch, Bernie; Jim Amos  
**Cc:** Zane Kurtz  
**Subject:** RE: Falcon 25 Fed 1H Assessment Report

Aloha Bernie et al,

Thank you for sending this in.

Based on the work document here and sample results OCD conditionally approved no further remediation action.

Please obtain concurrence from the BLM.

Have a great afternoon all.

-Doc

Tomáš 'Doc' Oberding, PhD  
Senior Environmental Specialist – New Mexico Oil Conservation Division  
Energy, Minerals and Natural Resources Department  
1625 N. French Dr.  
Hobbs, NM 88240  
(O): (575) 393-6161 ext 111  
(C): 575-370-3180  
(F): (575) 393-0720  
E-Mail: [tomas.oberding@state.nm.us](mailto:tomas.oberding@state.nm.us)  
Website: <http://www.emnrd.state.nm.us/ocd/>

---

**From:** Bockisch, Bernie [<mailto:bbockisch@craworld.com>]  
**Sent:** Tuesday, November 25, 2014 12:12 PM  
**To:** Oberding, Tomas, EMNRD; Jim Amos

**Cc:** Zane Kurtz  
**Subject:** Falcon 25 Fed 1H Assessment Report

Jim/Tomas,

On behalf of EOG Resources, Conestoga Rovers and Associates is submitting the attached report describing the sampling and remediation activities performed at the above mentioned site. Based on the laboratory analytical results, there were no observed petroleum hydrocarbon impacts and chloride concentrations do not extend below 2 feet below ground surface. Based on this, EOG is requesting that no further action be required for this site. Please feel free to contact me if you have any questions.

**Bernard Bockisch, PMP**  
**Conestoga-Rovers & Associates (CRA)**  
6121 Indian School Rd NE Ste. 200  
Albuquerque, NM, USA 87110  
Office: (505) 884-0672  
Mobile: (505) 280-0572  
Fax: (505) 884-4932  
Email: [bbockisch@craworld.com](mailto:bbockisch@craworld.com)  
[www.CRAworld.com](http://www.CRAworld.com)

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