

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 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 Elm Ridge Exploration Co LLC	Contact Amy Archuleta	
Address PO BOX 156	Telephone No. 505-632-3476 x 201	
Facility Name Dome Federal 24-21	Facility Type Oil Well	
Surface Owner BLM	Mineral Owner BLM	API No. 30-045-25244

LOCATION OF RELEASE

Unit Letter C	Section 24	Township 23N	Range 08W	Feet from the 510	North/South Line NORTH	Feet from the 1920	East/West Line WEST	County San Juan
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Latitude 36.218310 Longitude -107.63582

NATURE OF RELEASE

Type of Release Oil and Water	Volume of Release 25 Bbls	Volume Recovered 25 Bbls
Source of Release Production Tank	Date and Hour of Occurrence 10-12-14 Time Unknown	Date and Hour of Discovery 10-13-14 8 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell	
By Whom? Richard Graves	Date and Hour 10-13-14 9 AM	
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

OIL CONS. DIV DIST. 3

NOV 17 2016

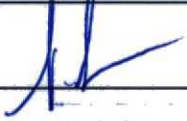

Describe Cause of Problem and Remedial Action Taken.*

This well had recently had a joint of bad tubing replaced and the well started producing more than anticipated. The Pumper didn't check the well over the weekend. We will shut the pumping unit down on Friday and turn it back on Monday. This well will pump slowly at a couple of bbls a day and then it surges and produces 200 bbls in day.

Describe Area Affected and Cleanup Action Taken.*

All the oil and water was released inside the berm. We vacuumed up the remaining liquid and removed the contaminated soil and took it to the Envirotech Land Farm. We had Envirotech come out to location and test the soil it passed the standard test. Envirotech had an IT issue and lost the results of the original test. On 11-3-16 Vanessa Fields and I went to location and grabbed another sample. The test results are attached.

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: 		OIL CONSERVATION DIVISION	
Printed Name: Amy Archuleta		Approved by Environmental Specialist 	
Title: Sr. Regulatory Supervisor		Approval Date: 11/17/2016	Expiration Date:
E-mail Address: aarchuleta@elmridge.net		Conditions of Approval: NCS1432335948	Attached <input type="checkbox"/>
Date: 11-16-16 Phone: 505-632-3476			

* Attach Additional Sheets If Necessary



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

16 November 2016

Amy Archuleta
Elmridge Exploration
PO Box 156
Bloomfield, NM 87413
RE: BTEX/TPH ext.

Enclosed are the results of analyses for samples received by the laboratory on 11/03/16 14:20.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



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Elmridge Exploration
PO Box 156
Bloomfield NM, 87413

Project: BTEX/TPH ext.
Project Name / Number: [none]
Project Manager: Amy Archuleta

Reported:
11/16/16 13:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DomeFed 24-21	1611047-01	Solid	11/03/16 08:40	11/03/16 14:20

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, 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 within thirty days after completion of the applicable service.

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Project: BTEX/TPH ext.
Project Name / Number: [none]
Project Manager: Amy Archuleta

Reported:
11/16/16 13:50

DomeFed 24-21

1611047-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	11/10/16	8021B		MS
Toluene*	0.191	0.050	0.002	mg/kg	50	11/10/16	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	11/10/16	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	11/10/16	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/10/16	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140 11/10/16 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	11/08/16	8015B		MS
DRO >C10-C28	<10.0	10.0	2.04	mg/kg	1	11/08/16	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.04	mg/kg	1	11/08/16	8015B		MS

Surrogate: 1-Chlorooctane 88.5 % 35-147 11/08/16 8015B MS

Surrogate: 1-Chlorooctadecane 95.1 % 28-171 11/08/16 8015B MS

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Project: BTEX/TPH ext.
Project Name / Number: [none]
Project Manager: Amy Archuleta

Reported:
11/16/16 13:50

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6110902 - Volatiles

Blank (6110902-BLK1)

Prepared: 11/09/16 Analyzed: 11/10/16

Surrogate: 4-Bromofluorobenzene (PID)	0.0555		mg/kg	0.0500		111	73.6-140			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (6110902-BS1)

Prepared & Analyzed: 11/09/16

Surrogate: 4-Bromofluorobenzene (PID)	0.0574		mg/kg	0.0500		115	73.6-140			
Benzene	2.14	0.050	mg/kg	2.00		107	82.6-122			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	65.4-131			
Toluene	2.19	0.050	mg/kg	2.00		110	72.9-122			
Total Xylenes	6.45	0.150	mg/kg	6.00		108	73.8-125			

LCS Dup (6110902-BSD1)

Prepared: 11/09/16 Analyzed: 11/10/16

Surrogate: 4-Bromofluorobenzene (PID)	0.0588		mg/kg	0.0500		118	73.6-140			
Benzene	2.16	0.050	mg/kg	2.00		108	82.6-122	0.796	8.23	
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	65.4-131	2.04	9.46	
Toluene	2.23	0.050	mg/kg	2.00		111	72.9-122	1.56	8.71	
Total Xylenes	6.58	0.150	mg/kg	6.00		110	73.8-125	1.98	8.66	

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Elmridge Exploration
PO Box 156
Bloomfield NM, 87413

Project: BTEX/TPH ext.
Project Name / Number: [none]
Project Manager: Amy Archuleta

Reported:
11/16/16 13:50

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6110711 - General Prep - Organics

Blank (6110711-BLK1)

Prepared: 11/07/16 Analyzed: 11/08/16

Surrogate: 1-Chlorooctadecane	60.9		mg/kg	50.0		122	28-171			
Surrogate: 1-Chlorooctane	57.8		mg/kg	50.0		116	35-147			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

LCS (6110711-BS1)

Prepared: 11/07/16 Analyzed: 11/08/16

Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0		117	28-171			
Surrogate: 1-Chlorooctane	59.2		mg/kg	50.0		118	35-147			
DRO >C10-C28	177	10.0	mg/kg	200		88.6	78.3-122			
GRO C6-C10	178	10.0	mg/kg	200		89.2	76.7-115			
Total TPH C6-C28	356	10.0	mg/kg	400		88.9	79.8-117			

LCS Dup (6110711-BSD1)

Prepared: 11/07/16 Analyzed: 11/08/16

Surrogate: 1-Chlorooctadecane	61.8		mg/kg	50.0		124	28-171			
Surrogate: 1-Chlorooctane	59.9		mg/kg	50.0		120	35-147			
DRO >C10-C28	185	10.0	mg/kg	200		92.3	78.3-122	4.03	13.2	
GRO C6-C10	180	10.0	mg/kg	200		90.1	76.7-115	0.976	9.42	
Total TPH C6-C28	365	10.0	mg/kg	400		91.2	79.8-117	2.51	10.7	

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Project: BTEX/TPH ext.
Project Name / Number: [none]
Project Manager: Amy Archuleta

Reported:
11/16/16 13:50

Notes and Definitions

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
*Results reported on as received basis unless designated as dry.
RPD Relative Percent Difference
LCS Laboratory Control Sample (Blank Spike)
RL Report Limit
MDL Method Detection Limit

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Organics

Parameter	Method	Container	Preservation	Holding Time
EXTRACTIONS				
Separatory Funnel Liquid - Liquid	Method 3510C (SW-846)	1000 mL	Cool, 4°C	7 Days
Continuous Liquid - Liquid	Method 3520C (SW-846)	1000 mL	Cool, 4°C	7 Days
Solid Phase Extraction	Method 3535 (SW-846)	1000 mL	Cool, 4°C	7 Days
Soxhlet Extraction	Method 3540C (SW-846)	60 g	Cool, 4°C	14 Days
Ultrasonic Extraction	Method 3550B (SW-846)	60 g	Cool, 4°C	14 Days
Supercritical Fluid Extraction of TI	Method 3560 (SW-846)	60 g	Cool, 4°C	14 Days
Supercritical Fluid Extraction of PI	Method 3561 (SW-846)	60 g	Cool, 4°C	14 Days
Waste Dilution	Method 3580A (SW-846)	60 g	Cool, 4°C	14 Days
Waste Dilution for Volatile Organi	Method 3585 (SW-846)	60 g	Cool, 4°C	14 Days
VOC's in Solids Using Headspace	Method 5021 (SW-846)*	60 g	Cool, 4°C	14 Days
Purge-and-Trap for Aqueous Sampl	Method 5030B (SW-846)	2 x 40 mL	Cool, 4°C, HCl to pH <2	14 Days
Purge-and-Trap for Soil and Wast	Method 5035 (SW-846)	60 g	Cool, 4°C	14 Days
BTEX / BTEX-MTBE*				
	EPA SW 846-8021B/water	2-40 mL VOA, G	Cool, 4°C, HCl to pH <2	14 Days
	"/soil	125 mL/ 4 oz w/m G	Cool, 4°C	"
	EPA SW 846-8260/ water	2-40 mL VOA, G	Cool, 4°C, HCl to pH <2	"
	"/soil	125 mL/ 4 oz w/m G	Cool, 4°C	"
	EPA 602/water	2-40 mL VOA, G	Cool, 4°C, HCl to pH <2	"
	EPA 524.2/water	2-40 mL VOA, G	Cool, 4°C, HCl to pH <2	"
Total Petroleum Hydrocarbons (TPH)				
	EPA SW 8015M/water	(2) 40 mL VOA	Cool, 4°C, HCl to pH <2	14 Days
	"/soil	125 mL/ 4 oz w/m G	Cool, 4°C	14 Days
	EPA 418.1/water	1000 mL Amber G	Cool, 4°C, HCl to pH <2	7 Days
	"/soil	125 mL/ 4 oz w/m G	Cool, 4°C	14 Days
	TX Method 1005/water	2) 40 mL VOA w/ HC	Cool, 4°C, HCl to pH <2	14 Days
	"/soil	125 mL/ 4 oz w/m G	Cool, 4°C	14 Days
Oil and Grease				
	EPA 413.1 water	1000 mL Amber G	Cool, 4°C, HCl to pH <2	28 Days
	EPA 1664A water	1000 mL Amber G	Cool, 4°C, HCl to pH <2	28 Days