



August 28, 2014

Mr. Tomas Oberding  
**NMOCD District I**  
1625 N. French Dr.  
Hobbs, NM 88240

Subject: **Remediation and Closure Report**  
Devon Energy  
Harrod No. 1  
API #: 30-025-34535  
**1RP-7-4-3185**

Dear Dr. Oberding:

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment, completed remediation activities and closure request are submitted herein.

#### **Incident Date**

June 9, 2014

#### **Background Information**

The Harrod No. 1 is located approximately seven (7) miles southwest of Lovington in Lea County, New Mexico. The legal location for this site is Section 9, Township 16 South, and Range 35 East. More specifically the latitude and longitude for the release are 32.934899 North and -103.4602861 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Arvana-Lea association. The local surface and shallow geology, Quaternary Age sedimentary deposits within in the Ogallala Formation, is comprised of calcareous-loamy alluvium and calcareous-loamy eolian deposits derived from sedimentary rock and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer's web site indicates the nearest ground water data to be in S9-T16S-R35E. The ground water in Section 9 is reported to be a depth of 80-feet below ground surface (bgs). See [Appendix II](#) for the referenced groundwater data.

The ranking for this site is **10** based on the following:

Depth to ground water	50'-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

ARTESIA  
408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.748.8905

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88241  
Phone 505.393.4261  
Fax 505.393.4658

MIDLAND  
2901 State Highway 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

OKLAHOMA CITY  
7700 North Hudson Ave  
Suite 10  
Oklahoma City, Oklahoma 73116  
Phone 405.486.7030  
Fax 806.467.0622

SAN ANTONIO  
13111 Lookout Way  
San Antonio, TX 78233  
Phone 210.265.8025  
Fax 210.568.2191

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

## **Incident Description**

A lightning strike occurred damaging a 300 barrel produced water tank causing approximately 4 barrels of produced water to be released. A vac truck was called and 4bbls were recovered. The area affected was within the containment of the facility, which measured approximately 30-feet wide by 50-feet long. The release did not breach the tank battery containment.

## **Remedial Actions Taken**

No remedial actions were taken within the tank battery as all fluids were recovered and the facility is lined.

Housekeeping activities were initiated at the historical stain just to the north of the tank battery. The impacted area measured approximately 20x20 feet. Sampling activities at S-1 were completed and a work plan was approved by the NMOCD.

The impacted area was subsequently excavated to a depth of 0.75-feet deep. The contaminated soil was disposed of at Lea Land, LLC.

The excavated area was backfilled with new caliche and re-contoured to match the surround location.

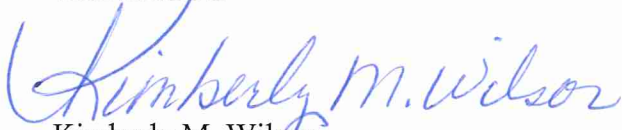
## **Closure**

On behalf of Devon Energy, we respectfully request that no further actions be required and that closure with respect to this release be granted.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE



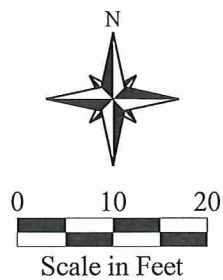
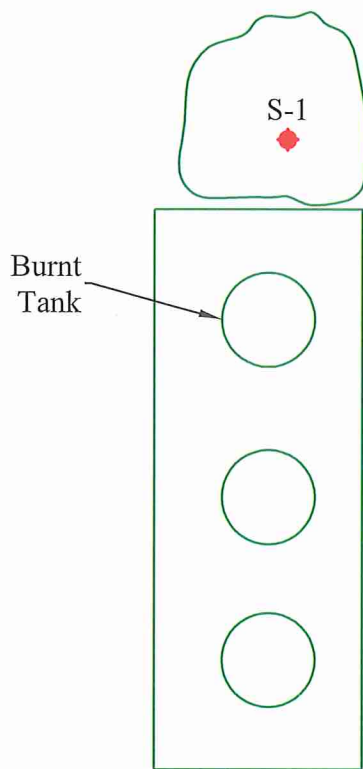
Kimberly M. Wilson  
Project Manager




David J. Adkins  
District Manager

## **APPENDIX I**

### **SITE MAP**



Legend	
	- Sample Location



Date: 07/16/2014  
Scale: 1" = 20'  
Drawn By: TJS

Harrod #001  
Devon Energy Corporation  
Lea County, New Mexico  
Figure 1 - Site Plan

**APPENDIX II**  
**GROUNDWATER DATA**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">L 01681 POD1</a>	L	LE		3	3	10	16S	35E		644725	3644719*	513	120		
<a href="#">L 02618</a>	L	LE		1	1	4	09	16S	35E	643811	3645214*	572	108	50	58
<a href="#">L 01624 S2</a>	L	LE		2	4	3	09	16S	35E	643613	3644809*	608	152	56	96
<a href="#">L 02386</a>	L	LE		4	2	09	16S	35E		644310	3645520*	710	114	60	54
<a href="#">L 06936</a>	L	LE		2	2	1	16	16S	35E	643620	3644407*	726	100	65	35

Average Depth to Water: **57 feet**

Minimum Depth: **50 feet**

Maximum Depth: **65 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

**Easting (X):** 644221

**Northing (Y):** 3644815

**Radius:** 1000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

**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

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 <b>Devon Energy</b>	Contact <b>Kenny Kidd</b>
Address <b>PO Box 250 Artesia, NM 88211</b>	Telephone No. <b>575- 513-8545</b>
Facility Name <b>Harrod 1</b>	Facility Type <b>Gas</b>

Surface Owner:	Mineral Owner:	API No. <b>30-025-34535</b> <b>1RP-7-14-3185</b>
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### LOCATION OF RELEASE

Unit Letter <b>J</b>	Section <b>9</b>	Township <b>16S</b>	Range <b>35E</b>	Feet from the <b>1980</b>	North/South Line <b>SOUTH</b>	Feet from the <b>1870</b>	East/West Line <b>East</b>	County <b>LEA</b>
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Latitude: **N32°56'05.4"** Longitude: **W103°27'36.9"**

### NATURE OF RELEASE

Type of Release: <b>Produced Water</b>	Volume of Release <b>4bbls</b>	Volume Recovered <b>4bbls</b>
Source of Release: <b>A lightning strike occurred knocking over a 300 barrel produced water tank</b>	Date and Hour of Occurrence <b>June 19, 2014 7:30 PM</b>	Date and Hour of Discovery <b>June 19, 2014 7:30 PM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Kenny Kidd-Foreman/Dusty Kennedy- Lease Operator/Amancio Cruz-EHS/Jerry Mathews-Production Superintendent/Roy White-Sr Production Foreman</b>	
By Whom? <b>Dusty Kennedy</b>	Date and Hour: <b>June 19, 2014 7:30 PM</b>	
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.\*

Describe Cause of Problem and Remedial Action Taken.\* **A lightning strike occurred knocking over a 300 barrel produced water tank causing approximately 4 barrels of produced water to be released. Gandy was called for vacuum services and approximately 4bbls were recovered. The area affected within the facility was 30 feet wide by 50 feet long. Talon LPE was contacted to perform the site assessment and soil sampling activities.**

Describe Area Affected and Cleanup Action Taken.\* **No remedial actions were taken within the tank battery as all fluids were recovered and the facility is lined. Housekeeping activities were initiated at the historical stain just to the north of the tank battery. The impacted area measured approximately 20x20 feet. Sampling activities at S-1 were completed and a work plan was approved by the NMOCD. The impacted area was subsequently excavated to a depth of 0.75-feet deep. The contaminated soil was disposed of at Lea Land, LLC. The area was re-contoured to match the surrounding location. No further actions are required.**

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: <i>Jeanette Barron</i>	<u><b>OIL CONSERVATION DIVISION</b></u>		
Printed Name: Jeanette Barron	Approved by Environmental Specialist:		
Title: <b>Field Admin Support</b>	Approval Date:	Expiration Date:	
E-mail Address: <b>Jeanette.barron@dvnm.com</b>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <b>August 28, 2014</b> Phone: <b>575-748-1813</b>			

\* Attach Additional Sheets If Necessary