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September 3, 2014

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

Subject: **Remediation and Closure Report**  
Devon Energy  
Mad Dog 15 Federal No. 1  
API #: 30-025-36778

Dear Dr. Oberding:

Devon Energy had 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**

February 14, 2014

**Background Information**

The Mad Dog 15 Federal No. 1 is located approximately thirty-four (34) miles west of Jal in Lea County, New Mexico. The legal location for this site is Section 15, Township 23 South, and Range 34 East. More specifically the latitude and longitude for the release point are 32.303128 North and - 103.45488 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Berino-Cacique fine sandy loams with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock. Drainage courses in this area are normally dry. According to the New Mexico State Engineer web site indicates the nearest ground water data to be in S3-T23S-R24E. The ground water in Section 3 is reported to be a depth of 318' below ground surface (bgs). See [Appendix II](#) for the referenced groundwater data.

The ranking for this site is **0** based on the following:

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

### Incident Description

A water transfer line from the Mad Dog 15 Federal Com No. 1 was found to be leaking. Approximately 80 barrels of produced water was released off the east side of Adobe Road into the drainage ditch. The affected area measured approximately 3-4 feet wide by 900-feet long. No fluids were recovered. Talon mobilized personnel to conduct soil sampling along the flow path on February 17, 2014. The results of these sampling activities are summarized in the table below.

### Remedial Actions Taken

The impacted area in the drainage ditch was excavated to a depth of 3-feet deep. All of the contaminated soil was transported to Lea Land, LLC for disposal.

Upon NMOCD approval of the confirmation samples the excavation was backfilled with new topsoil. The area was contoured to match the surrounding terrain.

### Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

July 14, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	3'	--	176	--	--
S-2	3'	--	176	--	--
S-3	3'	--	96	--	--

--Analyte Not Tested

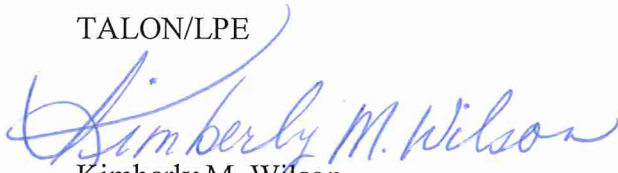
## Closure


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.

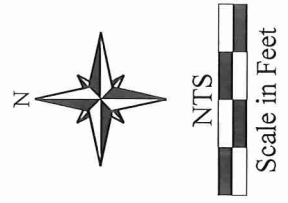
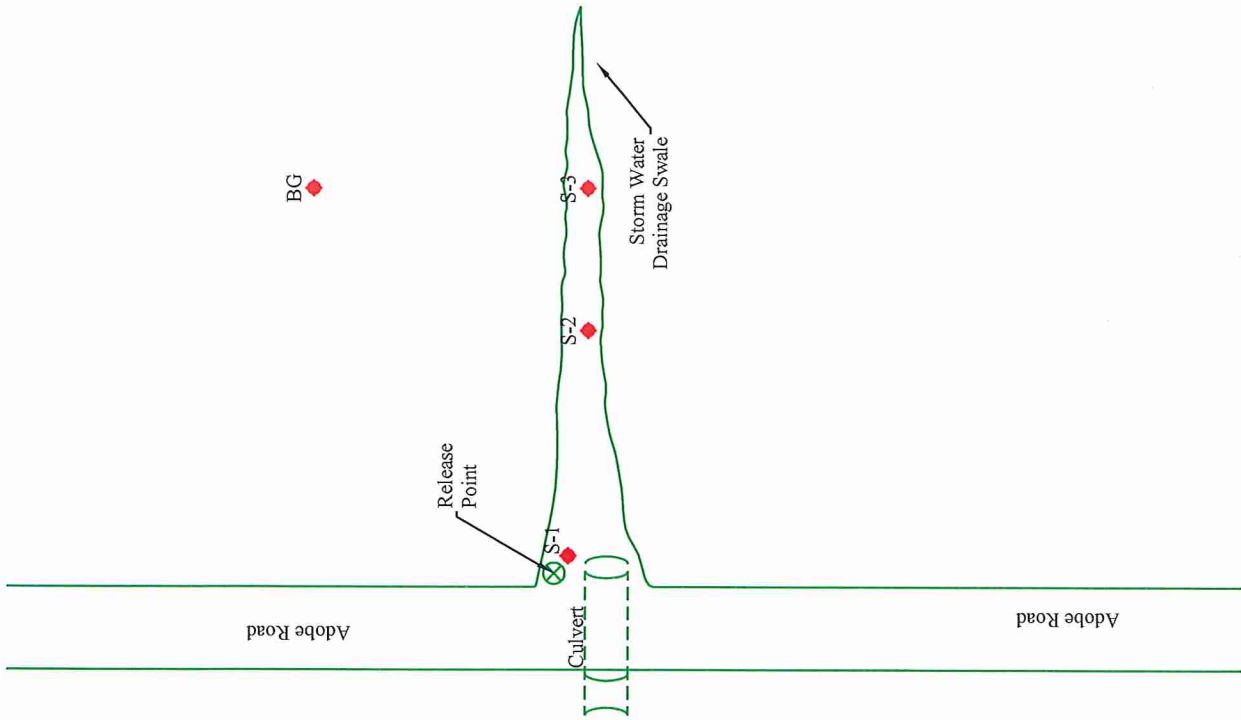
Respectfully submitted,

TALON/LPE

  
Kimberly M. Wilson  
Project Manager

  
David J. Adkins  
District Manager

**APPENDIX I**  
**SITE MAP**



**Legend**

◆ - Sample Location

	Date: 06/18/2014 Scale: NTS Drawn By: TJS	Maddog 15 Fed #1 Devon Energy Corporation Lea County, New Mexico Figure 1 - Site Plan
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**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="#">CP 01120 POD1</a>		LE		2	3	3	14	23S	34E	646366	3574753	514	397	318	79
<a href="#">CP 00637</a>		LE		3	3	4	15	23S	34E	645293	3574541*	602	430	430	0
<a href="#">CP 00606</a>		LE			4	1	23	23S	34E	646613	3573854*	997	650	265	385
<a href="#">CP 00618</a>		LE		1	2	4	22	23S	34E	645713	3573539*	1023	428	295	133
<a href="#">CP 01258 POD1</a>		LE		1	4	3	22	23S	34E	645015	3573221	1590	25		
<a href="#">CP 00580</a>		LE		3	4	3	23	23S	34E	646524	3572948*	1717	220		
<a href="#">CP 01258 POD2</a>		LE		1	4	3	22	23S	34E	644941	3572883	1916	65		
<a href="#">CP 01258 POD3</a>		LE		1	4	3	22	23S	34E	644941	3572883	1916	25		

Average Depth to Water: **327 feet**

Minimum Depth: **265 feet**

Maximum Depth: **430 feet**

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 645895

Northing (Y): 3574546

Radius: 2000

\*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.

**APPENDIX III**  
**LABORATORY RESULTS**





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

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July 14, 2014

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MAD DOG

Enclosed are the results of analyses for samples received by the laboratory on 07/11/14 14:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 07/11/2014  
Reported: 07/14/2014  
Project Name: MAD DOG  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/11/2014  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Kathy Perez

**Sample ID: S-1 3.0 (H402113-01)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/11/2014	ND	400	100	400	3.92	

**Sample ID: S-2 3.0 (H402113-02)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/11/2014	ND	400	100	400	3.92	

**Sample ID: S-3 3.0 (H402113-03)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/11/2014	ND	400	100	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

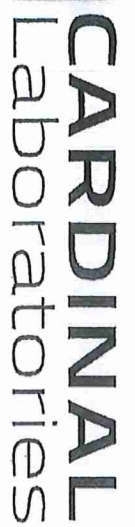
\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

[illegible]

**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	Devon Energy	Contact	Kenny Kidd
Address	PO Box 250, Artesia, NM 88211	Telephone No.	575-748-3371
Facility Name	Mad Dog 15 Federal Com #1	Facility Type	Oil Well

Surface Owner	Mineral Owner	API No.	30-025-36778
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	15	23S	34E	660	South	660	East	LEA

Latitude: 32.7271300239255 Longitude: 103.909386055786

**NATURE OF RELEASE**

Type of Release	Spill	Volume of Release	80 bbls	Volume Recovered	0
Source of Release	Water transfer line leak	Date and Hour of Occurrence	2/14/14, 8:15 AM	Date and Hour of Discovery	2/14/14, 8:15 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

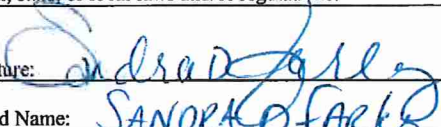
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A water transfer line from the Mad Dog 15 Federal Com No. 1 was found to be leaking. Approximately 80 barrels of produced water was released off the east side of Adobe Road into the drainage ditch. The affected area measured approximately 3-4 feet wide by 900-feet long. No fluids were recovered. Talon/LPE was contracted to remediate this release.

Describe Area Affected and Cleanup Action Taken.\*

The impacted area in the drainage ditch was excavated to and depth of 3-feet deep. All of the contaminated soil was transported to Lea Land, LLC for disposal. Upon NMOCD approval of the confirmation samples the excavation was backfilled with new topsoil. The area was contoured to match the surrounding terrain. No further action is 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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: SANDRA D FARKY	Approved by Environmental Specialist:		
Title: Field Admin. Support	Approval Date:	Expiration Date:	
E-mail Address: Sandra.Farky@dnr.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 9/3/2014	Phone: 575.746.5587		

\* Attach Additional Sheets If Necessary