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**Remediation and Closure Report
Devon Energy: Ross Ranch 10 Federal No. 1 SWD
30-015-296056 *2RP-3427***

March 21, 2016

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

Prepared For:

Devon Energy

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Remediation and Closure Report**
 Devon Energy
 Ross Ranch 10 Federal #001 SWD (30-015-29605) *2RP-3427*

Dear Mr. Bratcher,

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

Incident Date

November 24, 2015

Site Information

The Devon Ross Ranch 10 Federal #1 SWD is located approximately forty-eight miles west of Jal, New Mexico. The legal location for this site is Unit Letter H, Section 10, Township 26 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for this release are 32.0592 North and - 103.53247699 West. See site plan in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Tonuco fine sand. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

Ground water in the project vicinity is approximately 330-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. See [Appendix II](#) for the referenced groundwater data. Therefore the ranking for this site is a **0** based on the following:

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

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for total chlorides. See [Appendix II](#).

Incident Description

The stainless steel fitting on the SWD pump leaked at the connection to the ball valve causing 10 barrels of produced water to be released. A vac truck was immediately called to location and recovered 8 barrels of fluids. All the valves on the steel line connected to the pump were immediately closed to prevent any more water from being released. The fitting on the pump was repaired and put back into service.

Remedial Actions

Talon mobilized personnel and equipment to perform remediation activities in accordance with the approved work plan. The impacted area in the vicinity of sample location S-2 was excavated to a depth of 0.5-feet and all of the excavated material was hauled to Lea Land, LLC disposal facility. The excavated area was backfilled with clean caliche and contoured to match the surrounding 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. A Final C-141 is also attached. See [Appendix III](#)

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE


Kimberly Wilson
Project Manager


David J. Adkins
District Manager

Attachments:

Appendix I Site Plan
Appendix II Groundwater Data
Appendix III Final C-141

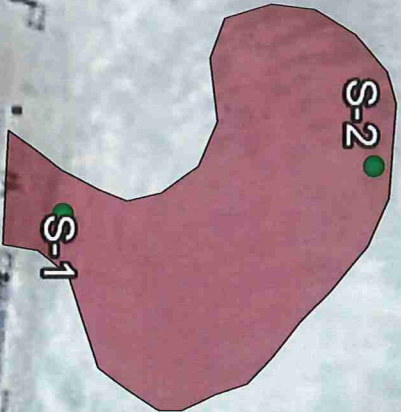
APPENDIX I

SITE MAP

Legend

- Feature 1
- Impacted Area
- 📌 Ross Ranch

📌 Ross Ranch



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
C 02090		ED		4	4	01	26S	31E		620329	3548533*	3189	350	335	15
C 03639 POD1	CUB	ED		3	4	2	01	26S	31E	620168	3549279	3250	700	365	335
C 03554 POD1	CUB	ED		2	1	4	01	26S	31E	620547	3549148	3556	630	300	330
C 03829 POD1	CUB	LE		3	3	1	06	26S	32E	620628	3549186	3645	646	350	296
C 01777	C	ED					08	26S	31E	613245	3547409*	3984	325	300	25

Average Depth to Water: **330 feet**

Minimum Depth: **300 feet**

Maximum Depth: **365 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 617188

Northing (Y): 3547981

Radius: 4000

*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

FINAL C-141