

HUNGRY HORSE, LLC

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DIRT WORK * ON-SITE REMEDIATION
SOIL TESTING * EXCAVATION * ELECTRICAL

18Aug16

To: Mike Bratcher, New Mexico Oil Conservation Division Dist. II
Reference: Remediation Work Plan
Operator: Devon Energy Production Company
Location: Chimayo 16 St. #3
GPS: 32.1329, -103.9934
Legals: UL. F, Sec. 16, T25S, R29E
NM OCD: 2RP 3412

Site Information

This location is approximately 7.75 miles southeast of Malaga, New Mexico and sits atop the caprock. The area is sparsely vegetated with mostly creosote bushes, mesquite bushes, and scattered range grasses. The New Mexico Office of the State Engineer list no groundwater data for this area. The Eddy County Depth to Groundwater Map indicates groundwater to be 100'-125'. There are no surface bodies of water or known water wells within 1000' of this site.

The remediation is the result of a release from a sump tank. All released fluids remained on the location. The impacted area is approximately 25' x 12'.

Work Conducted to Date

A delineation was conducted using a hand auger, back-hoe, and eventually an excavator. Hard rock was encountered at various depths, more especially at 20' below ground surface (BGS). See attached analytical summary and supporting for results.

Remediation Proposal

With the primary contaminant of concern being chlorides, I plan to use the dig and haul method of remediation. I propose to excavate the impacted area to a depth of 4' BGS and install a 20 mil synthetic liner as a barrier to prevent further downward migration of remaining chlorides. All excavated material will be transported to a division approved disposal facility. The excavated area will be backfilled with fresh caliche, compacted, and brought back to grade.



Vernon K. Black, Hungry Horse, LLC

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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1532742191 OPERATOR Initial Report Final Report

| | | | |
|---------------------|---|----------------------|--|
| Name of Company | Devon Energy Production <u>LO137</u> | Contact | Leonard Aguilar Production Assistant Foreman |
| Address | 6488 Seven Rivers Hwy Artesia, NM 88220 | Telephone No. | 575.513.1930 |
| Facility Name | Chimayo 16 State 3 | Facility Type | SWD |
| Surface Owner State | Mineral Owner State | API No. 30-015-38105 | |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| F | 16 | 25S | 29E | 1610 | FNL | 1455 | FWL | EDDY |

Latitude: Longitude:

NATURE OF RELEASE

| | | | | | |
|--|---|--|--|---|------------------------|
| Type of Release Spill | Produced Water | Volume of Release | 7 BBL Produced Water | Volume Recovered | 7 BBL Produced Water ? |
| Source of Release | Sump Tank | Date and Hour of Occurrence | 11/18/15 at 3:00 PM | Date and Hour of Discovery | 11/18/15 at 3:00 PM |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | OCD Jim Amos BLM Mike Bratcher | NM OIL CONSERVATION ARTESIA DISTRICT NOV 20 2015 RECEIVED | |
| By Whom? | Leonard Aguilar | Date and Hour | OCD 11/19/15 at 11:52 am BLM 11/19/15 at 11:55 am | | |
| Was a Watercourse Reached? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | N/A | | |
| If a Watercourse was Impacted, Describe Fully.* N/A | | | | | |
| Describe Cause of Problem and Remedial Action Taken.* Sump tank overfilled bad check valve, bad check valve allowed produced water from the charge pump to flow back into the sump tank. Isolated the tank by closing valves upstream and downstream of sump tank. | | | | | |
| Describe Area Affected and Cleanup Action Taken.* 7 BBL of Produced water released on a 30 x 50 area all on pad, 7 BBL of Produced water recovered. Vacuum truck was already on location. An environmental agency will be called out for remediation. | | | | | |
| 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: Jeanette Barron

Printed Name: Jeanette Barron

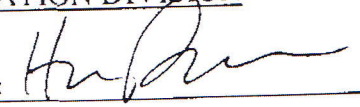
Title: Field Admin Support

E-mail Address: Jeanette.barron@dvn.com

Date: 11/20/15

Phone: 575.748.1813

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: 

Approval Date: 11/23/15

Expiration Date: N/A

Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached

SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: 12/23/15

2RP-3412

* Attach Additional Sheets If Necessary

Devon Energy Production Company-Chimayo 16 St #3



Devon Energy Production Company-Chimayo 16 St. #3



Analytical Summary

Operator: Devon Energy Production Company

Location: Chimayo 16 St #3

Summary of Remediation Sampling Analytical Results as Parts Per Million (PPM) July 2016

BTEX

| Sample Point | Depth | LAB |
|--------------|---------|-----|
| SP #1 | Surface | ND |
| | 4' | ND |
| SP #2 | Surface | ND |
| | 4' | ND |

Chlorides

| Sample Point | Depth | LAB | Field Test |
|--------------|---------|--------|------------|
| SP #1 | Surface | 30,000 | off strip |
| | 4' | 6660 | |
| | 9' | | 3508 |
| | 10' | | 3244 |
| | 12' | | 2162 |
| | 14' | | 2,162 |
| | 16' | | 1380 |
| | 18' | | 1,182 |
| | 20' | 4,720 | 1170 |
| SP #2 | Surface | 32,400 | off strip |
| | 4' | 2600 | |
| | 9' | | 1972 |
| | 10' | | 1818 |
| | 12' | 3280 | 1664 |
| | 16' | | 1518 |
| | 18' | | 382 |
| | 20' | 768 | 416 |

TPH

| Sample Point | Depth | LAB |
|--------------|---------|-------|
| SP #1 | Surface | ND/64 |
| | 4' | ND/ND |
| SP #2 | Surface | ND/59 |
| | 4' | ND/ND |