

# HUNGRY HORSE, LLC

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

17Dec15

To: Heather Patterson, NM OCD  
Jim Amos, BLM  
Reference: Remediation Work Plan  
Operator: Devon Energy Production Company  
Location: Ore Ida 14 Fed 10  
API: 30-015-29290  
Legals: UL. I, Sec. 14, T24S, R 29E  
GPS: 32.21323 -103.95768  
NM ODC RP: 2RP-3374

## **Site Information**

The work area is northwest of intersection of McDonald and Gavalin Roads. The point of release is approximately 350 yards southwest of the wellhead near the intersection of the lease roads. The area is on a gently sloping hillside with sparse vegetation consisting of mesquite bushes, creosote bushes, and range grasses. The New Mexico Office of the State Engineer's website list no groundwater data for the area. However, the Eddy County Depth to Groundwater Map indicates ground water to be greater than 100'.

## **Work Completed to Date**

A site assessment and One Call was conducted with the approximate trail of the release marked with pin flags. Due to rains during and after the release, a visibly defined area was not evident. The area was marked using information provided by the pumper and the natural drainage area of the location.

A delineation using a hand auger was conducted with soil samples being field tested for Chlorides. (See attached Results). The results of sampling at the release point (RP) indicated this was the largest area of impact, extending approximately 10' to the south and 25' to the north of the centerline. From there, the path was relatively narrow, 1'-3' wide, and was defined by the elevated "banks" of the water flow trail.

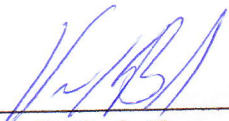
## **Remediation Proposal**

I propose to conduct this remediation using the dig and haul method. The impacted area at and between the release point (RP1) and SP1, will be excavated to a depth of 4' BGS and lined with a plastic liner. The impacted area between SP4-SP5 will also be excavated to a depth of 4' and lined with a plastic liner. The impacted area between SP5-SP9 will be excavated to a depth of 4' BGS with confirmation soil samples being collected and lab analyzed for Chlorides. A target of 1000 ppm or less is desired. Should lab analysis indicate

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this target has not been obtained, I propose to install a plastic liner here as well. The impacted area will then be backfilled, contoured, and seeded with a BLM approved seed mixture. All excavated material will transported to a division approved disposal facility.



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Vernon K. Black, Hungry Horse, LLC

| Devon - Ore Ida 14 Fed #10 SWD |            |                 |
|--------------------------------|------------|-----------------|
| Sample Point                   | Depth (FT) | Chlorides (PPM) |
| RP1                            | 0          | 2028            |
|                                | 1          | 8692            |
|                                | 2          | 10836           |
|                                | 5          | 2792            |
|                                | 7          | 826             |
|                                | 9          | 808             |
|                                | 11         | 248             |
| RP 1 South 3'                  | 0          | 1434            |
|                                | 1          | 7112            |
| RP 1 South 12'                 | 0          | NR              |
|                                | 1          | NR              |
| RP 1 North 4'                  | 0          | 4546            |
|                                | 1          | 7112            |
| RP 1 North 22'                 | 0          | 2792            |
|                                | 1          | 190             |
| SP 1                           | 0          | 3024            |
|                                | 1          | 6470            |
|                                | 3          | 9678            |
|                                | 5          | 5400            |
|                                | 7          | 226             |
|                                | 9          | NR              |
| SP 1 South 10'                 | 0          | NR              |
|                                | 1          | NR              |
| SP 1 North 10'                 | 0          | NR              |
|                                | 1          | NR              |
| SP 2                           | 0          | NR              |
|                                | 1          | NR              |
| SP 3                           | 0          | NR              |
|                                | 1          | NR              |
| SP 4                           | 0          | 2112            |
|                                | 3          | 6266            |
|                                | 5          | 2476            |
|                                | 7          | 818             |
|                                | 9          | 558             |
|                                | 11         | 516             |
| SP 5                           | 0          | 1296            |
|                                | 1          | 5706            |
|                                | 3          | 4020            |
|                                | 5          | 190             |
|                                | 7          | NR              |
| SP 6                           | 0          | 648             |
|                                | 3          | 298             |
|                                | 5          | 80              |
|                                |            |                 |
|                                |            |                 |

|            |   |      |
|------------|---|------|
| SP 7       | 0 | 2476 |
|            | 3 | 7638 |
|            | 5 | 322  |
|            | 7 | 56   |
| SP 7 South | 0 | 664  |
|            | 1 | 2680 |
|            | 3 | 162  |
| SP 8       | 0 | 28   |
| SP 9       | 0 | 2286 |
|            | 1 | 6266 |
|            | 3 | 7638 |
|            | 5 | 442  |
|            | 7 | 120  |
| SP 9 South | 0 | NR   |
|            | 1 | NR   |

All results are Field Test using Hach  
Chlorid Titrator Test Strips



## Devon – Ore Ida 14 Fed #10 SWD (Culvert)



Yellow Pins are the sample points.

Red line represents the flow route of release.



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

**NAB1530829829**

|  |  |
|--|--|
| <b>OPERATOR</b> <input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report |  |
| Name of Company <b>Devon Energy Production</b>   | Contact <b>Dan Suniga Production Foreman</b> |
| Address <b>6488 Seven Rivers Hwy Artesia, NM 88220</b>   | Telephone No. <b>575.513.1930</b>            |
| Facility Name <b>Ore Ida 14 Fed 10</b>   | Facility Type <b>SWD</b>                     |
| Surface Owner <b>Federal</b>   | Mineral Owner <b>Federal</b>                 |
| API No. <b>30-015-29290</b>  |  |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| I           | 14      | 24S      | 29E   | 1780          | FSL              | 860           | FEL            | EDDY   |

Latitude: **32.215079**

Longitude: **-103.948767**

NATURE OF RELEASE

|  |   |  |
|--|---|--|
| Type of Release Spill<br><b>Produced water</b>   | Volume of Release<br><b>25 BBL</b>                                | Volume Recovered<br><b>0 BBL</b>                         |
| Source of Release<br><b>Hole in 3 inch poly pipe</b>   | Date and Hour of Occurrence<br><b>10/27/15 at 1:30 PM</b>         | Date and Hour of Discovery<br><b>10/27/15 at 1:30 PM</b> |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br><b>Jim Amos - BLM<br/>Mike Bratcher - OCD</b> | <b>NM OIL CONSERVATION</b>                               |
| By Whom?<br><b>Leonard Aguilar</b>   | Date and Hour<br><b>10/28/15 at 12:30</b>                         | <b>ARTESIA DISTRICT</b>                                  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse<br><b>N/A</b>            | <b>NOV 03 2015</b>                                       |
| <b>RECEIVED</b>  |   |  |

If a Watercourse was Impacted, Describe Fully.\* **N/A**

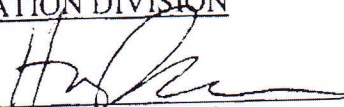
Describe Cause of Problem and Remedial Action Taken.\*

3 inch poly pipe ran over creating a hole which resulted in release. Transfer pumps shut off to prevent further release. The poly pipe is scheduled for repair.

Describe Area Affected and Cleanup Action Taken.\*

25 BBL spill of produced water was released on a 12 x 50 area on the lease road leading to the Ore Ida 14 Fed 10 SWD 0 BBL recovered. An environmental group will be contacted 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: <b>Jeanette Barron</b>              |                            | <b>OIL CONSERVATION DIVISION</b>  |                             |
| Printed Name: <b>Jeanette Barron</b>           |                            | Approved by Environmental Specialist:                        |                             |
| Title: <b>Field Admin Support</b>              |                            | Approval Date: <b>11/4/15</b>   | Expiration Date: <b>N/A</b> |
| E-mail Address: <b>Jeanette.barron@dmn.com</b> |                            | Conditions of Approval:<br><b>Remediation per O.C.D. Rules &amp; Guidelines</b> <input type="checkbox"/><br><b>SUBMIT REMEDIATION PROPOSAL NO</b> |                             |
| Date: <b>11/3/15</b>                           | Phone: <b>575.748.1813</b> | LATER THAN: <b>12/4/15</b>  |                             |

\* Attach Additional Sheets If Necessary

2RP-3374