

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.

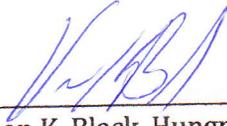
A delineation using a hand auger was conducted with soil samples being field tested for Chlorides. (See attached Results). The results of sampling at the release point (RP) indicated this was the largest area of impact, extending approximately 10' to the south and 25' to the north of the centerline. 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

HUNGRY HORSE, LLC

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.



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 OPERATOR Initial Report Final Report

Name of Company Devon Energy Production	Contact Dan Suniga Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575.513.1930
Facility Name Ore Ida 14 Fed 10	Facility Type SWD
Surface Owner Federal	Mineral Owner Federal
API No. 30-015-29290	

LOCATION OF RELEASE

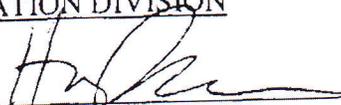
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	14	24S	29E	1780	FSL	860	FEL	EDDY

Latitude: 32.215079 Longitude: -103.948767

NATURE OF RELEASE

Type of Release Spill Produced water	Volume of Release 25 BBL	Volume Recovered 0 BBL
Source of Release Hole in 3 inch poly pipe	Date and Hour of Occurrence 10/27/15 at 1:30 PM	Date and Hour of Discovery 10/27/15 at 1:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos - BLM Mike Bratcher - OCD	NM OIL CONSERVATION ARTESIA DISTRICT NOV 03 2015
By Whom? Leonard Aguilar	Date and Hour 10/28/15 at 12:30	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	RECEIVED
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: Jeanette Barron	OIL CONSERVATION DIVISION	
Printed Name: Jeanette Barron	Approved by Environmental Specialist: 	
Title: Field Admin Support	Approval Date: 11/4/15	Expiration Date: N/A
E-mail Address: Jeanette.barron@dmv.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> Reached <input type="checkbox"/>	
Date: 11/3/15 Phone: 575.748.1813	SUBMIT REMEDIATION PROPOSAL NO	
LATER THAN: 12/4/15		

* Attach Additional Sheets If Necessary

2RD.3374