

HUNGRY HORSE, LLC

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

23Nov16

To: Mike Bratcher, New Mexico Oil Conservation Division
Shelly Tucker, Bureau of Land Management
Reference: Remediation Work Plan
Operator: Devon Energy Production Company
Location: Cotton Draw Unit #182H Battery
Legals: UL. D, Sec. 36, T24S, R31E Eddy County, NM
GPS: 32. 1793 -103.7378

Site Information

This site is located in rural Eddy County, NM approximately 2.75 miles west/southwest of the intersection of Buck Jackson Road and Buck Horn Road. The area is slightly vegetated with native grasses, mesquite bushes, and cactus plants. The New Mexico Office of the State Engineer's website list no water data for this area. However, the Eddy County Depth to Groundwater Map indicates groundwater to be 400'.

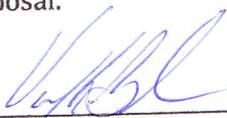
Work Conducted to Date

At the time of the release into the lined containment, a small area outside the containment was impacted from a slight over spray. This impact, approximately 15' x 15', was on the south side of the battery and in front of the west end tank. All other released fluids were recovered. The impacted area is on the caliche pad in front of the battery and no area off the pad is impacted.

Soil samples from the impacted area were obtained from four points. Each point was sampled at the surface, 1', and 2' BGS. All samples were field tested with the 2' BGS samples selected for lab analysis/confirmation. See attached lab analysis and analytical summary.

Remediation Proposal

Due to chlorides being the contaminant of concern for this remediation, I propose to use the dig and haul method of remediation for this site. I propose to excavate the impacted area, approximately 15' x 15', to a depth of 2' BGS and backfill with fresh caliche bringing the area back to the original grade. All impacted soils will be transported to a division approved for disposal.



Venon K. Black, Hungry Horse, LLC



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 36

Township: 24S

Range: 31E

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.

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 Production	Contact Jake Harrington, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 432-214-5175
Facility Name Cotton Draw Unit 182H Battery	Facility Type Oil
Surface Owner State	Mineral Owner State
API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	36	24S	31E	660	North	660	West	Eddy

Latitude: 32.179384

Longitude: -103.737840

NATURE OF RELEASE

Type of Release Spill	Volume of Release 700bbls	Volume Recovered 698bbls
Source of Release Produced Water Tank	Date and Hour of Occurrence May 1, 2016 @ 10:00 AM	Date and Hour of Discovery May 1, 2016 @ 10:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shelly Tucker, BLM Mike Bratcher, OCD	
By Whom? Ray Carter, Asst. Production Foreman	Date and Hour Shelly Tucker, BLM May 1, 2016 @ 5:30 PM Mike Bratcher, OCD May 1, 2016 @ 5:40 PM	
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.* A loose wire slipped out of the connection in the battery panel causing the entire battery to lose power and communication shutting down the transfer pumps. The wells to the battery were immediately shut off and a SCADA tech was contacted to fix the issue and get the pumps back going. The battery has been repaired and is back in operation.		
Describe Area Affected and Cleanup Action Taken.* 700bbls produced water was released into lined containment. 2bbls of that total amount was carried by the wind out of containment onto location in front of the containment traveling in a Northward direction on location in approximately a 2' x 15' area. All fluid remained on location and a vacuum truck was called and recovered 698bbls produced water from lined containment. Liner was checked for holes and none were found. An environmental agency will be contacted for remediation of the affected area.		

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.

OIL CONSERVATION DIVISION

Signature: <i>Sheila Fisher</i>	Approved by Environmental Specialist:	
Printed Name: Sheila Fisher	Approval Date:	Expiration Date:
Title: Field Admin Support	Conditions of Approval:	
E-mail Address: Sheila.Fisher@dvn.com	Attached <input type="checkbox"/>	
Date: 5/5/16	Phone: 575.748.1829	

* Attach Additional Sheets If Necessary

Devon Energy Production Company-Cotton Draw Unit #182H

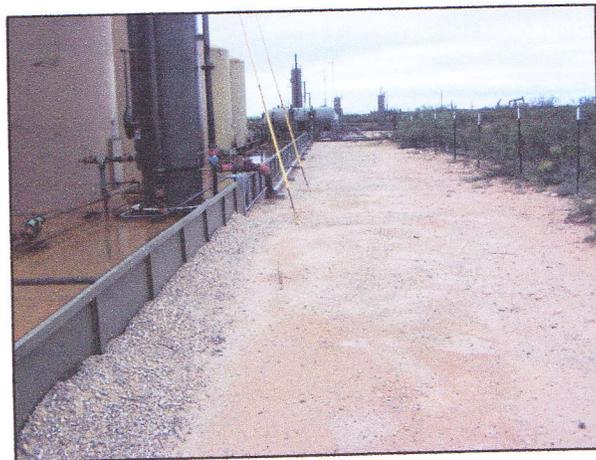


Cotton Draw
Unit #182H
Battery

32.1793 -103.7373

Impacted
Area 15' x 15'

Google Earth



Analytical Summary

Operator: Devon Energy Production Company

Location: Cotton Draw Unit #182H Battery

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

BTEX

Sample Point	Depth	LAB
SP #1	2'	ND
SP #2	2'	ND
SP #3	2'	ND
SP #4	2'	ND

Chlorides

Sample Point	Depth	LAB	Field Test
SP #1	Surface		962 ppm
	1'		1268 ppm
	2'	32 ppm	124 ppm
SP #2	Surface		3508 ppm
	1'		836 ppm
	2'	208 ppm	78 ppm
SP #3	Surface		626 ppm
	1'		1030 ppm
	2'	304 ppm	674 ppm
SP #4	Surface		2998 ppm
	1'		1268 ppm
	2'	1180	144 ppm

TPH

Sample Point	Depth	LAB
SP #1	2'	ND
SP #2	2'	ND
SP #3	2'	ND
SP #4	2'	ND