

# HUNGRY HORSE, LLC

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

**RECEIVED**

By JKeyes at 3:42 pm, Apr 20, 2016

**APPROVED**

Excavate pasture east of WBDU to 4' bgs.

11Feb16

To: Kellie Jones, New Mexico Oil Conservation Division, Dist. I  
Reference: Remediation Work Plan  
Operator: Apache Corporation  
Location: WBDU #137  
API: 30-025-39574  
Legals: UL. O, Sec. 4, T21S, R37E, Lea County, New Mexico  
GPS: 32.5024 -103.1701 (Point of Release)

## Site Information

This site is located north of Eunice, New Mexico approximately .75 miles west of Highway 207 at Cattle Guard #12. The point of release is .65 miles northwest of the nearest ranch house. The area is relatively flat with sparse vegetation. Good topsoil is present for 2'-3' before turning to caliche/caliche rock. There are no know water wells or surface bodies of water within 1000' of the site. The New Mexico Office of the State Engineer website indicates depth to ground water to be 75'.

The point of release is 1200' due west of the actual WBDU #137 well site. Areas impacted consisted of a lease road/ditch, two areas of the pasture, and the WBDU #100 well pad.

## Work Conducted to Date

Upon discovery of the release, the line was shut in to await repair. Vacuum trucks were dispatched to the site to begin recovery operations of the free standing liquid. All free standing liquid was recovered the day of the release. The following two days, remedial efforts were coordinated using back-hoes to facilitate the removal of all saturated soil from the impacted areas. Approximately 4"-6" of saturated soil was excavated and stock piled on plastic. Delineation using hand tools and a back-hoe was conducted in order to develop a remediation work plan. Due to the contour of the impacted area, the area was divided into seven areas for delineation. See the attached overhead map and corresponding Analytical Summary/Lab Report.

## Proposal

Based upon the lab results, there are three of the seven impacted areas that need additional work; the pasture east of the WBDU #100 pad, the road ditch east of the cattle guard, and the edge of the pasture west of the cattle guard.

- 1) Pasture East of the WBDU #100 Pad-I propose to excavate this area to a depth of 3' BGS and install a 20 mil synthetic liner. The area will then be backfilled, contoured to match the surrounding terrain, and seeded.
- 2) Road Ditch East of the Cattle Guard-I propose to excavate an additional 6" of impacted soil form the ditch and backfill to grade.
- 3) Edge of the Pasture Wests of the Cattle Guard-I propose to excavate an additional 2' of impacted soil, backfill back to grade and seed.

All impacted soils will be transported to a division approved disposal facility upon completion of approved work plan. Upon execution of the approved work plan, a Final C-141 will be submitted for closure.



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**

**OPERATOR**

Initial Report  Final Report

Name of Company: Apache Corporation	Contact Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name WBDU 127	Facility Type: Injection Well
Surface Owner Millard Deck Estates	Mineral Owner
API No. 30-025-39574	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	4	21S	37E	660'	FSL	1650'	FWL	Lea

Latitude 32.5024796 Longitude -103.1712189

**NATURE OF RELEASE**

Type of Release: produced water	Volume of Release 115 barrels of produced water	Volume Recovered 90 barrels of produced water
Source of Release: Fiberglass line	Date and Hour of Occurrence 1/28/2016	Date and Hour of Discovery 1/28/2016
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones (NMOCD)	
By Whom? Bruce Baker	Date and Hour 1/29/2016 at 10:05 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A 2 inch buried fiberglass line ruptured. The line was isolated and trucks were dispatched to pick-up standing fluid.		
Describe Area Affected and Cleanup Action Taken. The majority of the release was contained to lease pads and lease road except for a small area south of lease road and east of the WBDU 100 lease pad affected pasture.		
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>Bruce Baker</i>	Approved by Environmental Specialist:	
Printed Name: Bruce Baker	Approval Date:	Expiration Date:
Title: Environmental Technician	Conditions of Approval:	
E-mail Address: larry.baker@apachecorp.com	Attached <input type="checkbox"/>	
Date: 2/5/2016	Phone: (432) 631-6982	

\* Attach Additional Sheets If Necessary



# 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 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00552			LE	2	4	04		21S	37E	672700	3598022*	90	75	15
CP 00553			LE	2	4	04		21S	37E	672700	3598022*	90	75	15

Average Depth to Water: 75 feet

Minimum Depth: 75 feet

Maximum Depth: 75 feet

**Record Count: 2**

**PLSS Search:**

Section(s): 4

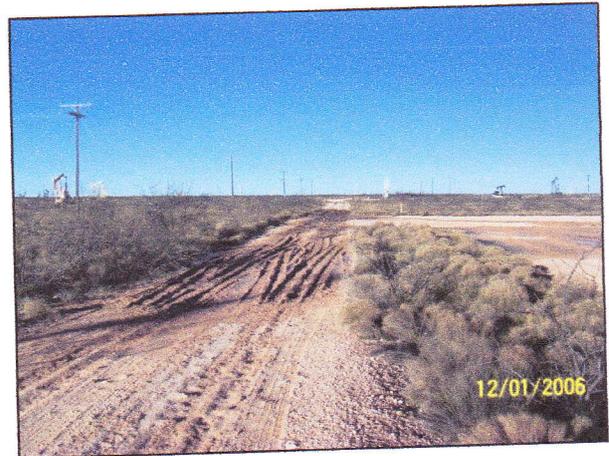
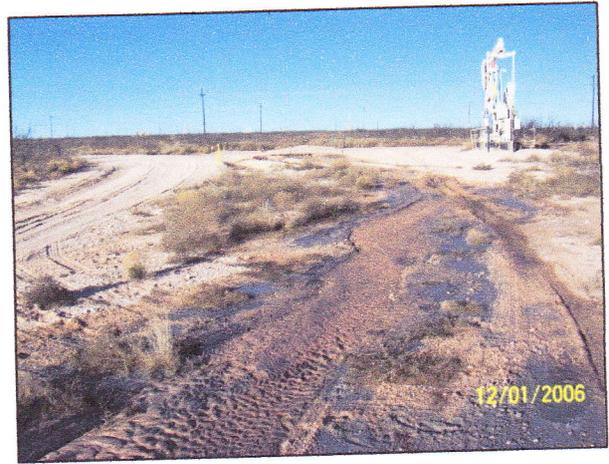
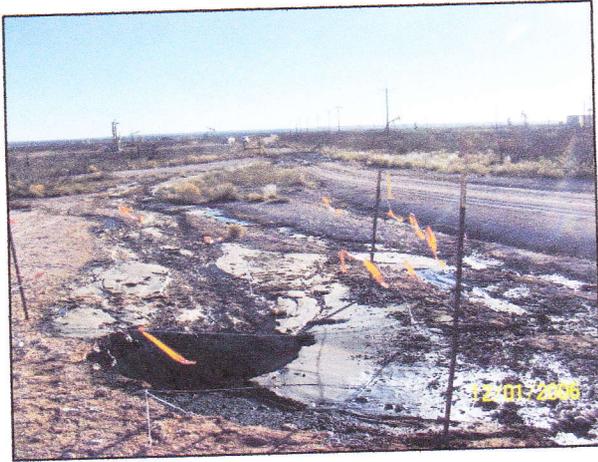
Township: 21S

Range: 37E

\*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.

Apache Corporation-WBDU #137



**Apache Corporation- WBDU #137 Site Map**



**Impacted area outlined in Red-not to scale**

**Sample Areas outlined in Orange**

# Analytical Summary

Operator: Apache Corporation

Location: WBDU #137

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

NOTE: Only chloride results are displayed on this summary. Although samples were analyzed for TPH/BTEX, levels were non-detectable, thus not summarized. See Attached Lab Report

## Chlorides -Pasture East of WBDU #100 Pad

Sample Point	Depth	Field Test	Lab Results
1	9"	1458	
	1.25'	1251	
	4'	745	
	6'	213	224
	7'	236	288

## Chlorides-WBDU #100 Pad

Sample Point	Depth	Field Test	Lab Results
1	9"	ND	32
	1.25'	ND	ND
2	9"	ND	ND
	1.25'	ND	ND
3	9"	ND	32
	1.25'	ND	32

## Chlorides-Road East of Cattle Guard

Sample Point	Depth	Field Test	Lab Results
1	6"	122	144
	1'	64	96
2	6"	78	96
	1'	60	160
3	9"	ND	ND
	1.25'	ND	ND

## Chlorides-Road Ditch East of Cattle Guard

Sample Point	Depth	Field Test	Lab Results
1	1'	802	
	2'	ND	48
	2.5'	120	160

## Chlorides-Middle of Road West of Cattle Guard

Sample Point	Depth	Field Test	Lab Results
1	6"	ND	ND
	1'	ND	48

## Chlorides-Stockpile at Point of Release

Sample Point	Depth	Field Test	Lab Results
1	COMP	296	464

## Chlorides-Edge of Pasture West of Cattle Guard

Sample Point	Depth	Field Test	Lab Results
1	6"	1587	
	1.5'	745	
	2'	285	
	2.5'	508	
	3.5'	ND	32
	4'	ND	48