

December 12, 2024

PROJECT # 5E33088 BG# 4

EMNRD – Oil Conservation Division 506 W. Texas Ave Artesia, NM 88210

SUBJECT: Closure Request Report for the Cotton Draw Unit #237H, Incident ID # nAPP2429757156, Lea County, New Mexico.

#### 1.0 Introduction

On behalf of Devon Energy Production Company, LP (Devon), Souder, Miller & Associates (SMA) has prepared this Closure Request Report that describes the corrective actions for a produced water incident related to oil and gas production activities at the Cotton Draw Unit #237H (Cotton Draw), Incident ID nAPP2429757156, that occurred on October 23, 2024. The spill area is located at latitude N 32.137892 and longitude W -103.668592.

Devon completed a release notification to the New Mexico Energy, Minerals, and Natural Resources Department – Oil Conservation Division (OCD) via Operators Electronic Permitting and Payment Portal on October 23, 2024, for the submission of Notice of Release (NOR), followed by the submission of the Form C-141, Release Notification on October 23, 2024. This letter provides a description of the spill assessment and includes a request for spill closure.

Table 1: Release Information and Closure Criteria							
Name	Cotton Draw Unit #237H	Company	Devon Energy Production Company, LP				
API Number	30-025-41996	Location	M-10-25S-32E 32.137892, -103.668592				
Incident Number	nAPP2429757156	Land Status	Federal				
Date of Release	October 23, 2024	Lease Number	NMLCO61936				
Source of Release	Corrosion on water transfer pu	mp					
Released Volume	5 bbls	Recovered Volume	5 bbls				
NMOCD Closure Criteria	Depth to groundwater 51-100 feet below ground surface (bgs)						

#### 2.0 Background

On October 23, 2024, a pinhole leak was discovered in the seal of the water transfer pump caused by corrosion. The total volume of released fluids was 5 barrels (bbls) of produced water. The release occurred within the secondary lined containment at Cotton Draw. Initial response activities were conducted by the operator, including source elimination, photographs of standing fluids, recovery of approximately 5 bbls of produced water, and verification that the affected area was properly exposed and cleaned for visual

observation. Documentation of the liner inspection, including photographs, is provided in the Site Assessment Report in Attachment 1.

#### 3.0 Site Geology and Vegetation

The Geologic Map of New Mexico by New Mexico Bureau of Geology and Mineral Resources indicates the surface geology at the incident location area is comprised of primarily Qep–Eolian and piedmont deposits (Holocene to middle Pleistocene), interlayed eolian sands, and piedmont-slope deposits. Soil texture is classified as Pyote loamy fine sands. Ecological settings include vegetation of mixed grasses, dominated by black grama, dropseeds with scattered shinnery oak, and sand sage. Decreases in black grama indicate a transition to either a grass/shrub or shrub dominated state. Perennial and annual forb abundance and distribution are dependent on precipitation. The grass and shrub state are composed of grasses and honey mesquite, broom snakeweed, or sand sage.

The surrounding geography and terrain are associated with plains, dunes, uplands, fan piedmonts, and interdunal areas with landforms consisting of sand dunes, hillslopes, and dunes at elevations between 2,800 and 5,000 feet above mean sea level (amsl). The annual average rainfall and precipitation ranges between 10 to 12 inches. The soil in the release location area consists of loamy fine sand to fine sandy loam, to a gravelly sandy loam, and in some areas high in lime or caliche fragments are found at the substratum layer that tends be well drained, with negligible runoff, and low available water supply. Pyote loamy fine sand is not classified as prime farmland.

#### 4.0 Site Information and Closure Criteria

The Cotton Draw is located approximately 27.3 miles west of Bennett, New Mexico, on Federal (BLM) land at an elevation of approximately 3,446 feet amsl. SMA completed site assessment/characterization pursuant to 19.5.29.11-12 NMAC to determine potential environmental impacts and closure criteria. Site assessment and characterization results are included in Attachments 1 and 2.

There is no surface water located on site or within closure criteria parameters of the site. The nearest significant watercourse, as defined in 19.15.17.7.P NMAC, is the Pecos River located approximately 20.2 miles west of the site (U.S. Fish and Wildlife Service, National Wetlands Inventory, 2024). There are no continuous flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.11 NMAC.

Depth to ground water was determined using a previously reported and measured temporary borehole on site, C-4634-POD1, for a depth of 55 feet bgs. The temporary borehole was completed on June 13, 2022. Documentation in reference to site characterization and depth to groundwater is included in Attachment 2.

Based on data included in the closure criteria determination worksheet, the incident at Cotton Draw is not subject to the requirements of 19.15.29.11.A.4 NMAC. Karst potential for the area that Cotton Draw is located in is low karst based off the New Mexico State Land office Land Status Interactive Map (NMSLO). The closure criteria for the site are the constituent concentration limits associated with 51 to 100 feet depth to groundwater as stated in Table 1 of 19.15.29.12 NMAC.

#### 5.0 Remediation Activities

Notification of the liner inspection, scheduled for November 6, 2024, was provided to Devon through email by SMA personnel on November 4, 2024. Devon provided notification to OCD and the Bureau of Land Management (BLM) through the ENMRD Electronic Permitting and Payment Portal for Operators on November 4, 2024. Notification documentation is included in Attachment 3.

On November 6, 2024, SMA personnel performed a visual inspection of the secondary containment to verify liner integrity as outlined in in Paragraph (5)(a) of Subsection A of 19.15.29.11 NMAC.

Visual observation of the liner was completed on all sidewalls and base of the containment, around equipment, and all seams of the liner. The inspection included looking for any potential perforations in the liner that could lead to a breach of the secondary containment. Observations concluded no signs of any cuts, rips, tears, or weathering of the liner condition needs repairs or replacement, and liner integrity was confirmed. Photo documentation of the liner inspection is in the Site Assessment Report (Attachment 1).

#### 6.0 Conclusions and Recommendations

Based on the liner inspection and assessment, SMA concludes the liner integrity is adequate to contain the release related to incident nAPP2429757156, and there is no evidence of release to the environment. Based on the professional activities and site assessment, Devon Energy Production Company respectfully requests closure on the incident that occurred at Cotton Draw Unit #237H.

#### 7.0 Scope and Limitations

The scope of our services included: visual inspection for liner integrity; regulatory liaison; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Stephanie Hinds at (505) 302-1127 or Monica Peppin at (575) 909-3418.

Submitted by: SOUDER, MILLER & ASSOCIATES

Monica Peppin Project Manager

Reviewed by:

Aliphunie Alvels

Stephanie Hinds, P.E. Senior Engineer

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#### **REFERENCES:**

New Mexico Office of the State Engineer (NMOSE) online water well database Httpe://gis.ose.state.nm.us/gisapps/ose\_pod\_locations/ USGS National Water Information System: Web interface online water well database https://nwis.waterdata.usgs.gov/nwis/gwlevels?site\_no=321205103544701&agency\_cd=USGS& format=html

U.S. Fish and Wildlife Service: National Wetlands Inventory Wetlands Mapper | U.S. Fish & Wildlife Service

- New Mexico State Land Office: Land Status <u>NMSLO Land Status</u>
- United States Department of Agriculture: Natural Resources Conservation Service: Web Soil Survey <u>https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx</u>
- USDA, USGS The National Map: Orthoimagry: FEMA's National Flood Hazard Layer (NFHL) Viewer https://hazardsfema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa 9cd

#### ATTACHMENTS:

Attachment 1: Site Assessment Report with Photographs Attachment 2: Closure Criteria Determination Research Attachment 3: Correspondence

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# ATTACHMENT 1: SITE ASSESSMENT REPORT





Client: <u>Devon Energy Corporation</u> Site Name: <u>Cotton Draw Unit #237H</u> API: 30-025-41996 Incident ID: <u>nAPP2429757156</u> Project Manager: <u>Monica Peppin</u> Project Owner: <u>Jim Raley</u>

### **Field Notes**

Nov 6, 2024, at 11:01AM

- Arrive on site at 9:40 AM and complete safety paperwork Conduct visual inspection of secondary containment and collect photos of liner in a 360-degree view for proof of liner integrity. Inspected for any visible perforations, cuts, rips, tears, or substantial weathering that could lead to the potential breach through the liner.
- Inspection concluded that there are no signs of permeation through the liner and the barrier between the secondary containment and ground surface is isolated to withhold fluids.
- Standing water inside containment shows that the secondary containment does not have any signs of potential breach and was from the pressure washing event to clean the lined containment to conduct the inspection.

## **Visual documentation**



Photograph #1: Site Details and Geographic Coordinates

on Draw Unit 237H Dita Visit - Arrive on site to inspect lines mplete safety paperwork, set up gps camera talk containment area and inspect For ny visite perforations, cuts, riss, teers, or reathing where it caud have been possible of potential breach through the line of become a release onto the pad under To signs of any holes or possible spots of Pluid to lack or Dreach line in the secondary containment Platos taken for proof of verification that visual imperition was done thoroughly to noure closure will be obtained by NMOCO and BLM. standing water inside containmut is emologing water used to usach liner up for the liner inspection No additional work or inspution needed and ready for closure report. Leave site and return to office to Enish uploading Field report Left site at 11:00 AM. Prive at office at 1116/24 p. Smaring Reppin

Photograph #2: Hand written notes from site visit



Photograph #3: Containment Area when release occurred



Photograph #5: Facing East showing north side of containment Released to Imaging: 12/23/2024 10:08:21 AM



Photograph #4: Point of Release where equipment was repaired



Photograph #6: Facing southeast showing east side of liner



## Photograph #7: Facing southwest showing east end of liner



Photograph #9: Facing west showing south area of containment Released to Imaging: 12/23/2024 10:08:21 AM



## Photograph #8: Facing south showing east wall of containment



Photograph #10: Facing north showing east area of containment





Photograph #11: Facing east from south side of containment for different angle of east area



Photograph #13: Facing north Released to having liner between tanks



## Photograph #12:Facing north showing liner between tanks



Photograph #14: Facing east showing liner on the south side of containment



Photograph #15: Facing northeast showing liner between tanks and under piping on southwest corner



Photograph #16: Facing northwest showing liner between tanks



Photograph #17: Facing north showing west end of containment



Photograph #18: Facing east showing south side of containment Received by OCD: 12/17/2024 7:59:35 AM



## Photograph #19: Facing east on west side on containment



# Photograph #21: Facing east showing liner on north side of containment

Released to Imaging: 12/23/2024 10:08:21 AM



## Photograph #20: Facing south showing west end of containment



Photograph #22: Facing southwest showing liner between tanks



Photograph #23: Facing west showing north side of containment

Technician: <u>Monica Peppin</u>

Date: <u>11/6/2024</u>

Signature:

# ATTACHMENT 2: CLOSURE CRITERIA DETERMINATION RESEARCH

#### Received by OCD: 12/17/2024 7:59:35 AM Cotton Draw Unit #237H

Approx Square Footage of Containment: 4,022 square feet



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Cotton Draw Unit 237H

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Page 14 of 61

Containment Area

Cotton Draw Unit 237H

Google Earth

mage © 2024 Airbus



## WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO. (W POD 1 (TW-1		.)		WELL TAG ID NO N/A	<b>)</b> .		OSE FILE NO( C-4634	S).				
GENERAL AND WELL LOCATION						PHONE (OPTIONAL) 575-748-1838							
						CITY Artesia		23	STATE NM	88210	ZIP		
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## Cotton Draw Unit #237H



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#### Received by OCD: 12/17/2024 7:59:35 AM Cotton Draw Unit #237H

Nearest Watercourse: Pecos River Distance: 20.20 miles (106,682 feet)



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Cotton Draw Unit 237H

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### U.S. Fish and Wildlife Service National Wetlands Inventory

Cotton Draw Unit #237H - Nearest Lakebed Distance: 20.3 miles/107,179 feet



#### December 11, 2024

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

**Freshwater Pond** 

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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#### CBateiredDyaQCD.ni2/#723024 7:59:35 AM

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Nearest Well: OSE Pod C-02271-POD2 Distance: 7.8 miles (41,189 feet) Well Use: Stock Watering

### Cotton Draw Unit 237H

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Legend Page 21 of 61 Cotton Draw Unit 237H Distance to Well

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Google Earth

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Image © 2024 Airbus

OSE Pod C-02271-POD2 Stock Water Released to Imaging: 12/23/2024 10:08:21 AM

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File No.: C-2271



### NEW MEXICO OFFICE OF THE STATE ENGINEER

CHANGE OF OWNERSHIP OF WATER RIGHT (NON-72-12-1) FOR (check one):

Important: Acceptance of the form for filing by the State Engineer does not constitute verification of the right conveyed.

🗌 Individual	Corporation
Trustee	Partnership
Estate	X Limited Liability Co.
Tribes, Pueblos, Nation	Governmental Entity

#### 1. OWNER OF RECORD (Seller)

Name: OLIVER KIEHNE		Name:	
Phone: 432-448-6337 Phone (Work):	🗌 Home 🗷 Cell	Phone: Phone (Work):	Home Cell
a. Owner of Record File No.: C-	-2271	b. Sub-file No.:	c. Cause No.:

#### 2. NEW OWNER (Buyer) Note: If more owners need to be listed, attach a separate sheet. Attached? - Yes

Name: Cerberus Land & Cattle	Company, LLC	Name:	
Contact or Agent: Aaron K. Davis	check here if Agent	Contact or Agent:	check here if Agent
Mailing Address: 8849 Larston St.		Mailing Address:	
<sup>City:</sup> Houston		City:	
State: Texas	Zip Code: 77055	State:	Zip Code:
Phone: 832-285-2645 Phone (Work):	Home X Cell	Phone: Phone (Work):	Home Cell
E-mail (optional): aarondavis1@gmai	l.com	E-mail (optional);	

Required: Submit warranty deed(s) or other instrument(s) of conveyance properly recorded with the county clerk's office.

Check all that app	bly:	Amount of Water (ac	re-feet per annum): If more details are
X Domestic Industrial		needed, type "See Co	omments" in "Other" field below, and explain
X Livestock	Commercial	in Additional Stateme	ents Section.
Irrigation	Other Uses (specify):	Diversion:	3.0
Municipal		Consumptive Use:	3.0
		Other (include units):	
Owner of record h	as conveyed all or part of said right (ple	ase check one) 🕅 All 🗌	Part

FOR OSE INTERNAL USE		Change of Ownership, Form wr-02, Rev 10/21			
File No.: ( - 227)	Tm. No.:	Well Tag ID No.: (if applicable):			
Trans Desc. (optional):	IF	Sub-Basin:	Receipt No.: 1-43843		
		000	Page 1 of 3		

4. LIST ALL KNOWN POINT(S)	OF DIVERSION (POD) FOR	THE WATER RIGHT CONVEYED
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OSE POD No .:	Well Tag ID No .:	Subdivision and/or Lat/Long or Easting/Northing	Section	Township	Range
C-2271		SW/4 NE/4 SW/4	21	26S	32E
	1				
Check all that apply	Well Pump	Ditch Name Rive	er Course		

#### 5. PLACE(S) OF USE (list each individually)

<ul> <li>b. Legally Described By:</li> <li>Public Land Survey System (PLSS)</li> <li>Hydrographic Survey Report or Map</li> <li>Irrigation or Conservation District Map</li> <li>Subdivision</li> </ul>	c. PLSS Section <u>and/or</u> Map No.	d. PLSS Township <u>and/or</u> Tract No.	e. PLSS Range	f. Acres	g. Priority	
PLSS Quarters or Halves, <u>and/or</u> Name of Hydrographic Survey or District, <u>and/or</u> Name and County of Subdivision	and/or Lot No.	(Please list each tract individually) <u>and/or</u> Block No.				
N/A				N/A	12-31-1909	
1						
h. Other description relating place of use to comm	l non landmarks, s	treets, or other:				
I. Place of use is located in the following counties	:					
Place of use is on land owned by: Cerberus	s Land & Ca	ttle Company,	LLC			
k. Are there other sources of water for these land				Der:		

6. ADDITIONAL STATEMENTS OR EXPLANATIONS

OSE DIT SEP 29 2021 MILLIAS

Water right is based on Change of Ownership of Water Right C-2271, filed on February 22, 2012, which is based on Amended Declaration C-2271, filed on February 25, 1994, claiming the use of 3.00 acre-feet per annum for domestic and stock watering purposes from shallow well C-2271. The Declaration described that well was drilled to a depth of 300 feet and constructed with a 6-inch casing, with a static water level of 260 feet. The well was equippied with a Gould 5-horsepower submersible pump and had an output capacity of 15 gallons per minute. The amended declaration stated that the described well "was drilled on September 9, 1992 by W.L. Van Noy." ...and "replaces well under Declaration 13-96 and is located approximately 9 feet north of old well which is capped." a.k.a. "Mexico Wells"

FOR OSE INTERNAL USE		Change of	of Ownership, Form wr-02, Rev 10/21/11
File No.: C-2271	Trn. No.:	Well Tag ID No	o. (if applicable):
Trans Desc. (optional):	F	Sub-Basin:	Receipt No.:

#### 7. CONSENT TO LAWFUL CHANGE IN PLACE AND/OR PURPOSE OF USE

(to be completed only if it is an irrigation water right and has been conveyed separate from the land to which it was appurtenant.)

Signature	Signature	
		_
А	CKNOWLEDGEMENT FOR INDIVIDUAL	
We (name of owner(s)), Oliver DK:	Char	
we (name of owner(s)), Studen in the	Print Name(s)	
ffirm that the foregoing statements are true to the best		
al' aut		
J-DRN		
Signature	Signature	
State of $(exa)$ (s.		
County of <u>Jutton</u> )		
his instrument was acknowledged before me this $5$	day of August A.D., 2021, by (name of owner(s)):	
	Chu A. C	-A-
MELANIE SMITH Notary ID #5244577	Notary Public:	rul
My Commission Expires	My commission expires: 8-15-200	3
August 15, 2023		
Ne (name of owner(s)),Cerberus Land	& Cattle Company, LLC	
	Print Name(s)	
firm that the foregoing statements are toge to the best	Print Name(s)	
firm that the foregoing statements are true to the best	Print Name(s)	
TATA	Print Name(s)	
Officer Signature	Print Name(s)	
Officer Signature	Print Name(s) of (my, our) knowledge and belief.	
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Difficer Signature State of <u>Texas</u> ), ss. Sounty of <u>Sutton</u> ); It is instrument was acknowledged before me this <u>5</u> riporation. Name of Officer:	Print Name(s) of (my, our) knowledge and belief. Officer Signature USE DIT SEP 29 2021 PA day of AugustA.D., 20 21, by the following on behalf of William H. Ditto Manager Cerberus Land & Cattle Company, LLC Texas	
County of	Print Name(s) of (my, our) knowledge and belief. Officer Signature USE DIT SEP 23 2021 PR day of August A.D., 20 21, by the following on behalf of William H. Ditto Manager Cerberus Land & Cattle Company, LLC Texas Notary Public:	said
Difficer Signature State of Texas ), ss. Sounty of Sutton ); Is instrument was acknowledged before me this 5 is instrument was acknowledged before me this 5 Is instrument was acknowledged before me this 5 Name of Officer:	Print Name(s) of (my, our) knowledge and belief. Officer Signature USE DIT SEP 29 2021 PA day of AugustA.D., 20 21, by the following on behalf of William H. Ditto Manager Cerberus Land & Cattle Company, LLC Texas	said
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Afficer Signature tate of Texas ) ounty of Sulton Ss. as instrument was acknowledged before me this 5 is instrument was acknowledged before me this 5 Name of Officer:	Print Name(s) of (my, our) knowledge and belief. Officer Signature USE DIT SEP 23 2021 PR day of August A.D., 20 21, by the following on behalf of William H. Ditto Manager Cerberus Land & Cattle Company, LLC Texas Notary Public:	rut

Received by OCD: 12/17/2024 7:59:35 AM

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3

LEA COUNTY, NM KEITH MANES, COUNTY CLERK 000009692 Book2184 Page 207 1 of 3 08/06/2021 03:34 PM WAYNE COLE

Return to First American Title Insurance Company File No. 14411-2632173 CS

#### SPECIAL WARRANTY DEED

For valuable consideration, the receipt and sufficiency of which are acknowledged, BATTLE AXE RANCH, L.L.C., a Texas limited liability company ("Grantor"), grants to CERBERUS LAND & CATTLE COMPANY, LLC, a Texas limited liability company ("Grantee") whose address is 2319 Pinefield Lane, Houston, Texas 77063, the following real property situated in Lea County, New Mexico:

Surface Title Only described on Exhibit "A" (collectively, the "Property").

The Property includes all easements, licenses, interests, rights, privileges, and appurtenances held by Grantor as of the recordation of this Deed that in any way benefit the Property or relate to the ownership of the Property.

with special warranty covenants.

Witness its hand and seal on the date set forth below.

BATTLE AXE RANCH, L.L.C., a Texas limited liability company

By: Name: Oliver D. Kiehne

Title: Member

By: <u>Midget-Kichne</u> Name: Bridget Kiehne

Title: Member

[Representative Capacity]

STATE OF SS COUNTY OF

0SE DIT SEP 29 2021 MUL.49

The foregoing instrument was acknowledged before me this 5th day of Aug 2021, by Oliver D. Kiehne as Member of BATTLE AXE RANCH, L.L.C., a Texas limited liability company, on behalf of said company.

Witness my hand and official seal.



Notary Public

My commission expires: 8-15-2023

{00159292} Special Warranty Deed - Battle Axe Ranch, LLC to Cerberus Land & Cattle Company, LLC Page 1

LEA COUNTY, NM KEITH MANES, COUNTY CLERK 000009692 Book2184 Page 207 2 of 3 08/06/2021 03:34 PM BY WAYNE COLE

File No.: 14411-2632173 (CS) Special Warranty Deed - continued A.P.N.: 78979

[Representative Capacity]

STATE OF Texas SS COUNTY OF Sutton

The foregoing instrument was acknowledged before me this  $5^{\text{th}}$  day of  $4^{\text{tugust}}$ , 2021, by Bridget Kiehne as Member of BATTLE AXE RANCH, L.L.C., a Texas limited Itability company, on behalf of said company.

Witness my hand and official seal.

MELANIE SMITH Notary ID #5244577 My Commission Expires August 15, 2023

Notary Public 8-15-2023

My commission expires:

(00159292) Special Warranty Deed - Battle Axe Ranch, LLC to Cerberus Land & Cattle Company, LLC Page 2

LEA COUNTY, NM KEITH MANES, COUNTY CLERK 000009592 Book2184 Page 207 3 of 3 08/06/2021 03:34 PM BY WAYNE COLE

#### **EXHIBIT "A"**

File No.: 14411-2632173 (CS)

All lands are located in Lea County, New Mexico

For Surface Title Only:

Township 26 South, Range 33 East, N.M.P.M.

 Section 9:
 S1/2

 Section 10:
 W1/2 SW1/4

 Section 21:
 N1/2, E1/2 SE1/4

 Section 28:
 E1/2NE1/4

#### Township 26 South, Range 32 East, N.M.P.M.

Section 21: NE1/4SW1/4

#### Township 26 South, Range 33 East, N.M.P.M.

 Section 15:
 S1/2SE1/4, W1/2NW1/4, SW1/4

 Section 22:
 S1/2

 Section 23:
 SW1/4, N1/2NW1/4, SW1/4NW1/4, W1/2E1/2

 Section 26:
 W1/2W1/2

 Section 27:
 N1/2

 Section 35:
 Lots 1-4, NW1/4NW1/4

{00159292} Special Warranty Deed – Battle Axe Ranch, LLC to Cerberus Land & Cattle Company, LLC Page 3

#### 26738

#### WARRANTY DEED

Oliver D. Kiehne and Bridget Kiehne, husband and wife, hereby grants to Battle Axe Ranch, LLC, a Texas limited liability company, whose address is P.O. Box 135, Orla, Texas, 79770, the following described property, including any improvements, located in Lea County, New Mexico:

#### "Mexico Wells" NE/4SW/4 Section 21 Township 26 South, Range 32 East, NMPM, Lea County, New Mexico

N.M. State Lease: Portion of State Lease #GT2519 Section 2 Township 26 South, Range 32 East NMPM Section 16 Township 26 South, Range 32 East, NMPM Lots 1,2,3,4 N/2N/2, Section 32 Township 26 South, Range 32 East, NMPM Lots 1,2,3,4 N/2N/2, Section 36 Township 26 South, Range 32 East, NMPM Lea County, New Mexico

BLM Lease: BLM permit # 76052

#### "Goedeke and Needmore"

S/2 Section 9, W/2SW/4 Section 10 N/2, E/2 SE/4 Section 21, E/2NE/4 Section 28 Township 26 South, Range 33 East, NMPM, Lea County, New Mexico

#### N.M. State Leases:

Portion of State Lease #GT2519: Section 16 Township 26 South, Range 33 East, NMPM E/2 Section 17 Township 26 South Range 33 East NMPM State Lease #G01355: Lots 1,2,3, 4 N/2N/2 Section 32 Township 26 South, Range 33 East, NMPM, All in Lea County, New Mexico

BLM Lease: BLM permit # 76046 Goedeke Grazing Cell

Subject to those restrictions, easements and reservations of record.

10th day of MAC Witness my hand and seal this

Oliver D. Kiehne

Budget Kehne

2014.

Bridget Kiehne

BOOK 1922 PAGE 338

Recrived by OCD: 12/17/2024 7:59:35 AM

Released to Imaging: 12/23/2024 10:08:21 AM

ACKNOWLEDGEMENT FOR NATURAL PERSONS

State of Texas ) 55 County of Lusback ) This instrument was acknowledged before me this 10th day of March 2014. My commission expires February 10, 2017 Notary COLBY GARRETT MCCLELLAN NOTARY PUBLIC STATE OF TEXAS MY COMM. EXP. 210/17 STATE OF NEW MEXICO COUNTY OF LEA FILED 26738 ER C OCT 23 2014 YTNC. 11111 PM 12:15 o'clock and recorded in Book 00 pelle. Lea County Clerk By\_ LEA "

BOOK 1922 PAGE 339





#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

JOHN R. D'ANTONIO JR., P.E. State Engineer DISTRICT II 1900 WEST SECOND STREET ROSWELL, NEW MEXICO 88201 (575) 622-6521 FAX: (575) 623-8559

November 15, 2021

CERBERUS LAND & CATTLE COMPANY, LLC AARON DAVIS 8849 LARSTON ST. HOUSTON, TX 77055

#### RE: CHANGE OF OWNERSHIP - C-2271

Greetings:

Enclosed is one original copy of Change of Ownership of Water Right submitted to this office for filing in accordance with NMSA 1978, § 72-1-2.1 (1996). The acceptance by the State Engineer Office does not constitute a validation of the rights claimed.

According to Section 72-1-2.1, you must record the Change of Ownership with the Clerk of the county in which the water rights are located. The filings shall be public notice of the existence and contents of the instruments so recorded.

Sincerely, Lisa Fresquez

Water Resource Allocation Program Water Rights Division

LF: Enclosures

#### Received by OCD: 12/17/2024 7:59:35 AM Cotton Draw Unit #237H

Paline fill

Nearest Town: Bennett, New Mexico Distance: 27.30 miles (14,413 feet)

and the second second

C. C.

1

#### Legend

Page 31 of 61

- Cotton Draw Unit 237H
- Solution Distance to Nearest Municipal Boundary

Cotton Draw Unit 237H

Satisfier and water first the

182

10.0 - 0 - 0

Bennett

10 mi

(18)

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Google Earth

Image © 2024 Airbua

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#### Received by OCD: 12/17/2024 7:59:35 AM Cotton Draw Unit #237H

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長度

Nearest Wetland: Riverine Distance: 2.30 miles (12,159 feet)



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- X Coal Mine Locations
- Mining\_Ghost\_Towns



New Mexico Bureau of Geology and Mineral Resources, New Mexico Bureau of Geology & Mineral Resources, NMBGMR, BLM, Earthstar Geographics, NMBGMR



## Cotton Draw Unit #237H - Flood Zone



#### Legend

Page 35 of 61



Basemap Imagery Source: USGS National Map 2023



USDA Natural Resources Conservation Service Released to Imaging: 12/23/2024 10:08:21 AM Web Soil Survey National Cooperative Soil Survey 11/6/2024 Page 1 of 3


# Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI	
PT Pyote loamy fine sand		5.8	100.0%	
Totals for Area of Interest		5.8	100.0%	



# Lea County, New Mexico

# PT—Pyote loamy fine sand

#### **Map Unit Setting**

National map unit symbol: dmqp Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 200 days Farmland classification: Farmland of statewide importance

#### **Map Unit Composition**

Pyote and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Pyote**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

#### **Typical profile**

*A - 0 to 25 inches:* loamy fine sand *Bt - 25 to 60 inches:* fine sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.3 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s *Hydrologic Soil Group:* A *Ecological site:* R070BD003NM - Loamy Sand *Hydric soil rating:* No

#### **Minor Components**

#### Maljamar

Percent of map unit: 8 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### Palomas

Percent of map unit: 7 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

# **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 21, Sep 3, 2024



# Ecological site R070BD003NM Loamy Sand

Accessed: 11/07/2024

# **General information**

**Provisional**. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

#### Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

## **Associated sites**

R070BD004NM	<b>Sandy</b> Sandy		
R070BD005NM	<b>Deep Sand</b> Deep Sand		

#### Table 1. Dominant plant species

Tree	Not specified	
Shrub	Not specified	
Herbaceous	Not specified	

# **Physiographic features**

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

#### Table 2. Representative physiographic features

Landforms	<ul><li>(1) Fan piedmont</li><li>(2) Alluvial fan</li><li>(3) Dune</li></ul>
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

#### **Climatic features**

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

#### Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

#### Influencing water features

This site is not influenced from water from wetlands or streams.

#### **Soil features**

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravely sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are: Maljamar Berino Parjarito Palomas Wink Pyote

#### Table 4. Representative soil features

·					
Surface texture	<ul><li>(1) Fine sand</li><li>(2) Fine sandy loam</li><li>(3) Loamy fine sand</li></ul>				
Family particle size	(1) Sandy				
Drainage class	Well drained to somewhat excessively drained				
Permeability class	Moderate to moderately rapid				

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Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

# **Ecological dynamics**

Overview

The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus, S. contractus, S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

# State and transition model

# MLRA-42, SD-3, Loamy Sand



1a. Drought, over grazing, fire suppression.

1b. Brush control, prescribed grazing

Severe loss of grass cover, fire suppression, erosion.
 Brush control, seeding, prescribed grazing.

3. Continued loss of grass cover, erosion.

# State 1 Historic Climax Plant Community

# Community 1.1 Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

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surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

#### Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

#### Table 6. Ground cover

Tree foliar cover	0%					
Shrub/vine/liana foliar cover	0%					
Grass/grasslike foliar cover						
Forb foliar cover						
Non-vascular plants	0%					
Biological crusts						
Litter						
Surface fragments >0.25" and <=3"						
Surface fragments >3"						
Bedrock	0%					
Water	0%					
Bare ground	22%					

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

# State 2 Grass/Shrub

Community 2.1 Grass/Shrub Grass/Shrub



 Black grame/Mesquite community, with some dropseeds, threeways, and scattered sand shineary oak
 Oracs cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

# State 3 Shrub Dominated

# Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

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aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/snakeweed abundance

# Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike				
1	Warm Season			61–123	
	little bluestem	SCSC	Schizachyrium scoparium	61–123	_
2	Warm Season		-	37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	_
3	Warm Season			37–61	
	cane bluestem	BOBA3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season		•	123–184	
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season	•	•	123–184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	123–184	_
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	_
6	Warm Season	•		123–184	
	spike dropseed	SPCO4	Sporobolus contractus	123–184	_
	sand dropseed	SPCR	Sporobolus cryptandrus	123–184	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	_
7	Warm Season	1		61–123	
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	_
	Arizona cottontop	DICA8	Digitaria californica	61–123	_
9	Other Perennial Grasses	1		37–61	
	Grass, perennial	2GP	Grass, perennial	37–61	_
Shrub	/Vine		•	•	
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	37–61	-
	giant dropseed	SPGI	Sporobolus giganteus	37–61	_
10	Shrub	<b>I</b>	•	61–123	
			T		

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	sand sagebrush	ARFI2	Artemisia filifolia	61–123	-	
	Havard oak	QUHA3	Quercus havardii	61–123	_	
11	Shrub	34–61				
	fourwing saltbush	ATCA2	Atriplex canescens	37–61	_	
	featherplume	DAFO	Dalea formosa	37–61	_	
12	Shrub			37–61		
	jointfir	EPHED	Ephedra	37–61	_	
	littleleaf ratany	KRER	Krameria erecta	37–61	_	
13	Other Shrubs			37–61		
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	37–61	_	
Forb						
14	Forb			61–123		
	leatherweed	CRPOP	Croton pottsii var. pottsii	61–123	_	
	Indian blanket	GAPU	Gaillardia pulchella	61–123	_	
	globemallow	SPHAE	Sphaeralcea	61–123	_	
15	Forb			12–37		
	woolly groundsel	PACA15	Packera cana	12–37	_	
16	Forb			61–123		
	touristplant	DIWI2	Dimorphocarpa wislizeni	61–123	_	
	woolly plantain	PLPA2	Plantago patagonica	61–123	_	
17	Other Forbs	Other Forbs				
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	37–61	_	

# **Animal community**

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

#### Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups. Hydrologic Interpretations Soil Series Hydrologic Group Berino B Kinco A Maljamar B Pajarito B Palomas B Wink B Pyote A

#### **Recreational uses**

This site offers recreation potential for hiking, borseback riding, nature observation, photography and hunting. During years of abundant spring moisture, this site displays a colorful array of wildflowers during May and June.

# Wood products

This site has no potential for wood products.

# Other products

This site is suitable for grazing by all kinds and classes of livestock at any time of year. In cases where this site has been invaded by brush species it is especially suited for goats. Mismanagement of this site will cause a decrease in species such as the bluestems, blsck grama, bush muhly, plains bristlegrass, New Mexico feathergrass, Arizona cottontop and fourwing saltbush. A corresponding increase in the dropseeds, windmill grass, fall witchgrass, silver bluestem, sand sagebrush, shinery oak and ephedra will occur. This will also cause an increase in bare ground which will increase soil erodibility. This site will respond well to a system of management that rotates the season of use.

# Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index Ac/AUM 100 - 76 2.3 - 3.575 - 51 3.0 - 4.550 - 26 4.6 - 9.025 - 0 9.1 +

#### Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

# **Other references**

Literature Cited:

Ansley, R. J.; Jacoby, P. W. 1998. Manipulation of fire intensity to achieve mesquite management goals in north Texas. In: Pruden, Teresa L.; Brennan, Leonard A., eds. Fire in ecosystem management: shifting the paradigm from suppression to prescription: Proceedings, Tall Timbers fire ecology conference; 1996 May 7-10; Boise, ID. No. 20. Tallahassee, FL: Tall Timbers Research Station: 195-204.

Ansley, R. J.; Jones, D. L.; Tunnell, T. R.; [and others]. 1998. Honey mesquite canopy responses to single winter fires: relation to herbaceous fuel, weather and fire temperature. International Journal of Wildland Fire 8(4):241-252.

Britton, Carlton M.; Wright, Henry A. 1971. Correlation of weather and fuel variables to mesquite damage by fire. Journal of Range Management 24:136-141.

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. Journal of Range Management 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

McDaniel, Kirk C.; Pieper, Rex D.; Loomis, Lyn E.; Osman, Abdelgader A. 1984. Taxonomy and ecology of perennial snakeweeds in New Mexico. Bulletin 711. Las Cruces, NM: New Mexico State University, Agricultural Experiment Station. 34 p. McPherson, Guy R. 1995. The role of fire in the desert grasslands. In: McClaran, Mitchel P.; Van Devender, Thomas R., eds. The desert grassland. Tucson, AZ: The University of Arizona Press: 130-151.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

## Contributors

Don Sylvester Quinn Hodgson

# Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

#### Indicators

- 1. Number and extent of rills:
- 2. Presence of water flow patterns:
- 3. Number and height of erosional pedestals or terracettes:
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
- 5. Number of gullies and erosion associated with gullies:
- 6. Extent of wind scoured, blowouts and/or depositional areas:

- 7. Amount of litter movement (describe size and distance expected to travel):
- 8. Soil surface (top few mm) resistance to erosion (stability values are averages most sites will show a range of values):
- 9. Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
- 10. Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
- 11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
- 12. Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):

Dominant:

Sub-dominant:

Other:

Additional:

- 13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):
- 14. Average percent litter cover (%) and depth ( in):
- 15. Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annualproduction):
- 16. Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:

•

# Cotton Draw Unit #237H



# 11/7/2024, 12:38:27 AM

#### Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perenial standing water
- Qa—Alluvium (Holocene to upper Pleistocene)



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Earthstar Geographics, NMBGMR

#### ArcGIS Web AppBuilder

# ATTACHMENT 3: CORRESPONDENCE

#### outlook 🚺

#### RE: [EXTERNAL] nAPP2429757156 Cotton Draw Unit #237H Liner Inspection Notification

From Raley, Jim <jim.raley@dvn.com>

Date Mon 11/4/2024 1:03 PM

- To Monica Peppin <Monica.Peppin@soudermiller.com>
- Cc Stephanie Hinds <stephanie.hinds@soudermiller.com>; Reid Allan <reid.allan@soudermiller.com>

#### Submitted to portal 11/4/2024

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Monica Peppin <Monica.Peppin@soudermiller.com>
Sent: Monday, November 4, 2024 7:31 AM
To: Raley, Jim <Jim.Raley@dvn.com>
Cc: Stephanie Hinds <stephanie.hinds@soudermiller.com>; Reid Allan <reid.allan@soudermiller.com>; ocd.enviro@emnrd.nm.gov; blm\_nm\_cfo\_spill@blm.gov
Subject: [EXTERNAL] nAPP2429757156 Cotton Draw Unit #237H Liner Inspection Notification

AII:

SMA anticipates conducting a liner inspection at the Cotton Draw Unit #237H on Wednesday, November 6, 2024: Proposed Date: 11.6.24 Proposed Time Frame: On-site 9:30 AM Site Name: Cotton Draw Unit 237H Incident Number: nAPP2429757156 API: 30-025-41966 (NMLC061936)

Site Name and Incident ID:	Cotton Draw Unit #237H
	nAPP2429757156
Containment surface area:	Approx, 4,035 sq ft containment
Have all impacted materials been removed from the liner:	All materials have been removed and liner pressure washed for liner inspection
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	Wednesday, November 6, 2024
Time liner inspection will commence:	9:30 AM
Contact information:	Monica Peppin 575.909.3418
Navigation to site:	From intersection 128 and C1 (Orla Rd) travel south for 5.73 miles, turn left onto lease road (Cotton Draw rd) traveling east for 0.35 miles, turn left onto lease road travelling north for 0.39 miles, and left again travelling west for 0.17 miles ending onto CDU 237H pad.

If you have any questions or concerns, please contact me via email or phone.

Thanks, Monica

Since 1985

Monica Peppin, A.S. Project Manager

General Information Phone: (505) 629-6116

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

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QUESTIONS

Action 412716

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	412716
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2429757156
Incident Name	NAPP2429757156 COTTON DRAW UNIT 237H @ 30-025-41996
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41996] COTTON DRAW UNIT #237H

#### Location of Release Source

Please answer all the questions in this group.	
--	--

Site Name	COTTON DRAW UNIT 237H
Date Release Discovered	10/23/2024
Surface Owner	Federal

#### Incident Details

Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 5 BBL   Recovered: 5 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 412716

QUESTIONS (	(continued)
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Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	412716
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered. ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of	
	ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.		
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/17/2024	

General Information Phone: (505) 629-6116

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	412716
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	Νο
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

#### Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission Yes			
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.			
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	Yes		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,		
On what estimated date will the remediation commence	11/01/2024		
On what date will (or did) the final sampling or liner inspection occur	11/06/2024		
On what date will (or was) the remediation complete(d)	11/06/2024		
What is the estimated surface area (in square feet) that will be remediated	4022		
What is the estimated volume (in cubic yards) that will be remediated	0		
These estimated dates and measurements are recognized to be the best guess or calculation at the	time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

QUESTIONS, Page 3

Action 412716

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

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QUESTIONS, Page 4

Action 412716

QUESTIONS (continued)		
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 412716 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Remediation Plan (continued) Please answer all the questions that apply or are indicated. This information must be provided to the This remediation will (or is expected to) utilize the following processes to remediate (Select all answers below that apply.)		
Is (or was) there affected material present needing to be removed	Yes	
Is (or was) there a power wash of the lined containment area (to be) performed	Yes	
OTHER (Non-listed remedial process)	Not answered.	
which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/17/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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# **State of New Mexico** Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

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Action 412716

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	412716
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information		
Last liner inspection ne	otification (C-141L) recorded	399036
Liner inspection date p A of 19.15.29.11 NMAC	ursuant to Subparagraph (a) of Paragraph (5) of Subsection	11/06/2024
Was all the impacted r	naterials removed from the liner	Yes
What was the liner ins	pection surface area in square feet	4035

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all r	remediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
What was the total surface area (in square feet) remediated	4022
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above)	Secondary Containment inspection completed. No breach through liner
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents o
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or tially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing notification to the OCD when reclamation and re-vegetation are complete.
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional

Email: jim.raley@dvn.com Date: 12/17/2024

General Information Phone: (505) 629-6116

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# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	412716
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By Condition scwells None

CONDITIONS

Action 412716

Condition Date

12/23/2024

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